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Air Pollution Measurements of the National Air Sampling Network

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Analyses of Suspended Particulates 1957 - 1961

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

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The objectives of the National Air Sampling Network include the determination of the extent and the nature of air pollution as well as the study of trends in the levels of various atmospheric contaminants and the investigation of relationships between air pollution and socioeconomic, geographic, topographic, -eteorological, and other factors. The data acquired are useful in planning epidemiological investigations and also provide the background against which more intensive community and statewide studies of air pollution can be conducted. This report is limited to presenting and discussing the measurements made on the suspended particulate matter for the years 1957 to 1961.

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AIR POLLUTION MEASUREMENTS
# of the
NATIONAL AIR SAMPLING NETWORK

ANALYSES OF SUSPENDED PARTICULATES
1957–1961

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Air Pollution
Washington 25, D.C.

Robert A. Taft Sanitary Engineering Center
Cincinnati, Ohio

1962

PREFACE

Air pollution is a major problem in environmental health, a problem that grows more severe as our population expands. For the protection of health and well-being in our Nation's communities, we must control contamination of the atmosphere. Methods of reducing air pollution must be based upon data concerning pollutant levels—upon atmospheric measurements that define the air pollution problem. Such information is being provided through several comprehensive programs of atmospheric sampling conducted by the Division of Air Pollution and by numerous State and local agencies. Analysis of this information allows the assessment of past and present contamination levels, and is useful for the prediction of future control requirements.

This report of air pollution measurements of the National Air Sampling Network for the period 1957 to 1961 is the second major compilation of Network data. As our programs for the surveillance of air quality are continued, it is hoped that concurrent gains will be made in the overall abatement of air pollution, both in individual communities and on a national scale. In the coming years, then, these reports of air pollution measurements might constitute a record of our Nation's progress in the fight for cleaner air.

Acknowledgment is made of the valuable assistance provided by State health departments, Federal agencies, and Regional Offices of the Public Health Service in setting up and maintaining the Network. The generous cooperation of many local participating agencies and the large number of station operators who have given freely of their time is acknowledged and appreciated. Without this assistance, the operation of the National Air Sampling Network would not be possible.

VERNON G. MACKENZIE,
Chief, Division of Air Pollution.

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PART 1—THE NATIONAL AIR SAMPLING NETWORK

INTRODUCTION

The events of recent years have served to focus the attention of the public on the problem of air pollution. Since World War II increasing numbers of communities have experienced the adverse effects of atmospheric contamination. Realizing the importance of maintaining the quality of the atmosphere at a safe level, many State and local governing bodies have passed, and others are seeking to pass, legislation aimed at controlling the emission of contaminants to the atmosphere. The formulation of adequate control measures is contingent upon knowledge of the nature and the effects of air pollution. Such knowledge cannot be obtained without routinely analyzing the air for various chemical constituents.

In an attempt to provide the basic data necessary to characterize the problem of air pollution, the Public Health Service in 1953 established an air sampling network. The Federal Air Pollution Research and Technical Assistance Act (Public Law 159, 84th Congress), under which the program is currently administered, became effective in June 1955.

The objectives of the National Air Sampling Network were specifically defined. They include the determination of the extent and the nature of air pollution as well as the study of trends in the levels of various atmospheric contaminants and the investigation of relationships between air pollution and socioeconomic, geographic, topographic, meteorological, and other factors. The data acquired are useful in planning epidemiological investigations and also provide the background against which more intensive community and statewide studies of air pollution can be conducted.

Initially, the operations of the network included the collection and analysis of suspended particulate matter only. More recently, activities have been expanded to include the collection and analysis of precipitation samples and the determination of the level of atmospheric contamination by specific gaseous pollutants. This report is limited to presenting and discussing the measurements made on the suspended particulate matter for the years 1957 to 1961. A report summarizing the particulate data collected during the years 1953 to 1957 was published in 1958(1). Technical papers relative to the operations of the network and the interpretation of data also have been presented (2, 3, 4, 5).

Historical Background

Initially, in cooperation with State and local health departments and air pollution control agencies, air sampling stations were set up in 17 communities. Then, as now, the field operations were carried out on a voluntary basis by the local agencies with sampling equipment and laboratory services supplied by the National Air Sampling Network. During the years 1954 to 1956, as a result of the desire of additional communities to participate in this effort, other stations were activated, bringing the total to 66.

Operations: 1957 to 1961

Major revision of the network operations was initiated on January 1, 1957. With these revisions the network became truly "national." There are currently 250 sampling stations in the network, 213 urban and 37 nonurban. Of the urban stations, 73 sample every year and 140 sample every other year (fig. 1.1). Thus, in any one year there are 180 stations actively collecting samples, 143 urban and 37 nonurban.

Every-year urban sampling stations are usually located in the largest city (in terms of population) in each of the 50 States, the District of Columbia, and Puerto Rico. In the more populous States there are several every-year urban sampling stations. By collecting samples every other year at additional stations at least a minimum of data concerning particulate air pollution is available for most of the major urban areas in the United States. In Massachusetts, New York, and Texas, stations originally scheduled to collect samples on an every-other-year basis were in fact operated as every-year stations. These stations were maintained during the off years by the respective State agencies.

Nonurban station locations include various topographical categories such as farmland, desert, forest, mountain, and coastal. The nonurban stations were not specifically selected to be "clean air" control sites for urban areas, but they do provide for a relative comparison between some urban and nearby nonurban areas.

ATMOSPHERIC POLLUTANTS MEASURED

Pollutants may be classified into two types: (a) gases or vapors, (b) particulate matter consisting of solid particles and liquid droplets. Particulate matter may be further divided into two categories: (1) large particles that settle rapidly, (2) small particles that remain in suspension in the air for varying periods of time. These latter, called suspended particulate matter, are the type of particulate matter collected by the National Air Sampling Network.

Suspended Particulate Matter

Polluted atmospheres contain varying quantities of suspended particulate matter, known technically as aerosols. This suspended particulate matter consists of smoke, dust, and fumes, which are solid, and droplets of viscous liquids. Suspended particulate matter varies in size from well below 1 micron to approximately 100 microns, a micron being approximately 1/25,000 of an inch. Among the effects of particulate pollutants are reduction of visibility, soiling and deterioration of materials, plant damage, irritation of tissue, and possible damage to health.

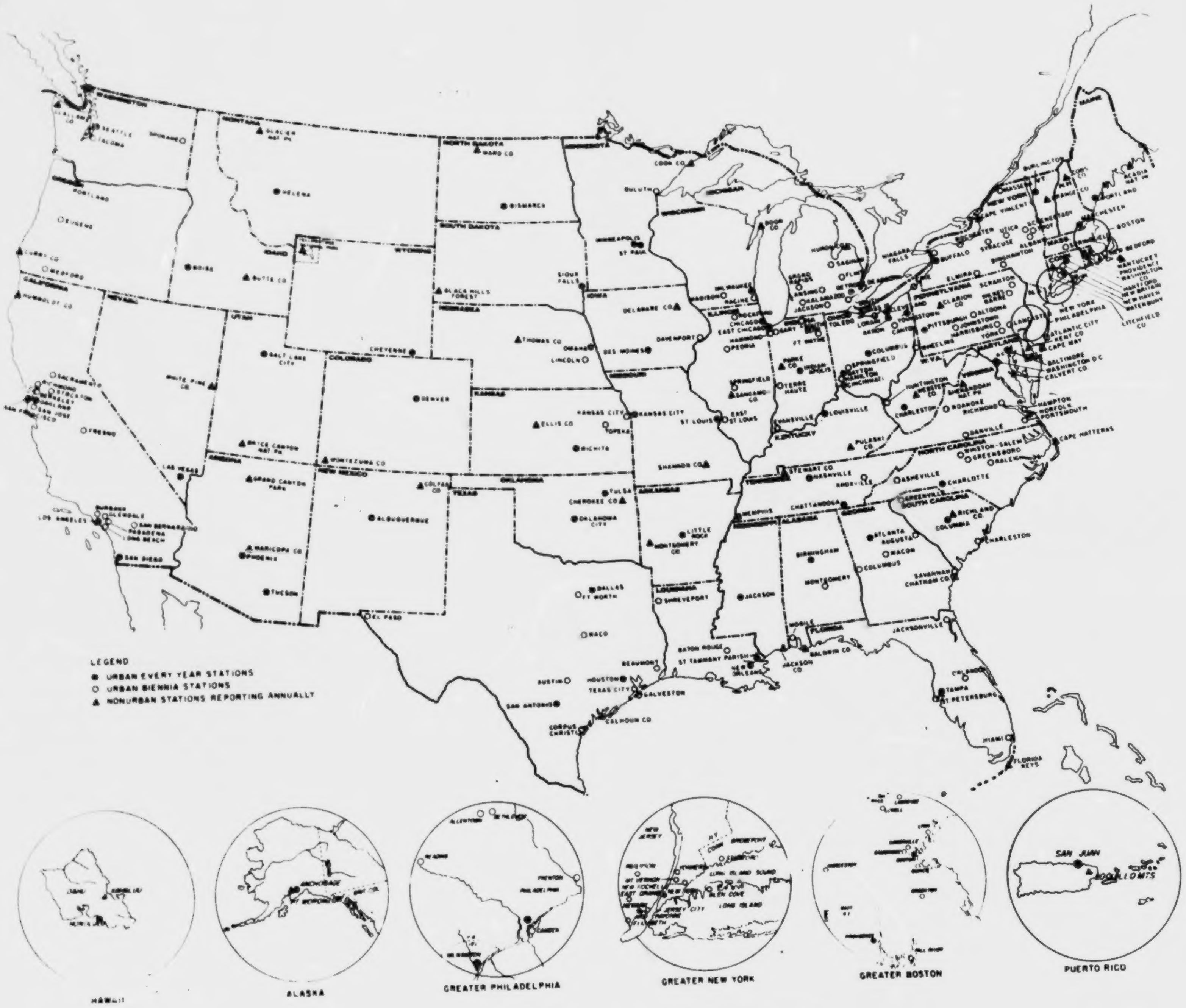

FIGURE 1.1—NATIONAL AIR SAMPLING NETWORK.

This particulate matter may arise from a great many sources: incomplete combustion of solid, liquid, or gaseous fuels; wastes from metallurgical, chemical, and refining operations, incineration, and numerous other processes; and natural phenomena such as dust storms, volcanic eruptions, sea spray, etc. The determination of the composition of suspended particulate matter in the atmosphere sheds light on the nature of particulate pollution. A detailed chemical analysis of particulate samples from urban and nonurban areas provides basic data that is valuable in the overall attack on air pollution. Such data may be useful in pinpointing sources of pollution and in predicting potential health effects.

Organic Pollutants

That fraction of particulate matter that is soluble in benzene is classified in this report as benzene-soluble organic matter, or simply organic matter.

A wide variety of liquid and solid organic materials are poured into the atmosphere. Among these are substances that may cause irritation of biological tissue. Compounds that produce cancer in experimental animals have been isolated from atmospheric organic matter.

Inorganic Pollutants

In contrast to the "tarry" organic matter, inorganic solids in the air are gritty, ash-like, or crystalline. A very large number of such pollutants have been identified. Since many inorganic materials can be related to specific industrial processes and operations, their presence in the air can often be used to ascertain sources of pollution.

Sulfates.—In addition to the liquid sulfuric acid contributed to the atmosphere by various industrial processes, a considerable amount may result from that portion of the atmospheric sulfur dioxide which is converted to the trioxide and then to sulfuric acid in the presence of water vapor. This acid reacts with other substances in the air to form sulfates. Most of the sulfur dioxide arises from the combustion of fuels. Therefore, the particulate sulfate level may reflect the fuel consumption of a community. Since many sulfates are acid, they generally have corrosive properties.

Nitrates.—Nitrates arise in the air in a manner similar to sulfates. Nitric acid and oxides of nitrogen come from industrial operations and various combustion processes. The presence of nitrates increases the corrosive property of the atmosphere.

Metals.—A large number of metals, metal oxides, and salts are released to the atmosphere from a wide variety of industrial processes, urban activities, and natural sources. Since the effluent from a particular industry is limited to the raw materials involved, identification of metals in atmospheric samples may be of use in detecting sources of pollution.

Many metals are known to be toxic at certain concentrations. Potential problem areas may be defined on the basis of data obtained by the analysis of samples of suspended particulate matter. Emission spectrographic procedures are employed for the measurement of metals, and it is possible to analyze a single sample for a large number of metals with little more effort than required for a few. This has made possible the accumulation of a great deal of basic information on the concentrations of many metallic pollutants whose hygienic significance has not as yet been determined.

Radioactive Materials

The rapid increase in the use of atomic energy for industrial, medical, and military purposes has stimulated interest in the measurement of the radioactivity in the atmosphere. Radioactive materials are unique in that they may be detected from sources several thousand miles distant. This detection is made possible by the supersensitive methods available for the determination of radioactive materials, as compared to the lower sensitivity of the chemical methods used for the other analyses reported herein.

While the determination of β-radioactivity is not a major objective of the National Air Sampling Network these measurements have been made since the early days of the Network and for a time represented the major source of such information. Since 1956 the National Radiation Surveillance Network has collected information on the radioactivity in the atmosphere. Information concerning this activity is available from the Division of Radiological Health, Public Health Service, U.S. Department of Health, Education, and Welfare, Washington 25, D.C.

SAMPLING EQUIPMENT

Suspended particulate samples are obtained with a high-volume air sampler (fig. 1.2), which draws air through an 8- by 10-inch glass-fiber filter (fig. 1.3) capable of removing practically 100 percent of all particulates 0.3 micron, or greater, in diameter. During each scheduled sampling period the sampler is operated for 24 hours.

At most urban stations airflow rates average about 40 to 50 cubic feet per minute. At nonurban stations the rates are higher, usually averaging in the 55 to 65 cfm range. Since airflow progressively diminishes as particulates accumulate on and increase the flow of resistance of the filter, all samplers are set to operate initially at about 55 to 65 cfm. On the assumption that the flow rates decrease uniformly during the sampling period, the volume of air filtered is taken as the product of the time interval and the average of initial and final flow rates observed during each sampling period.

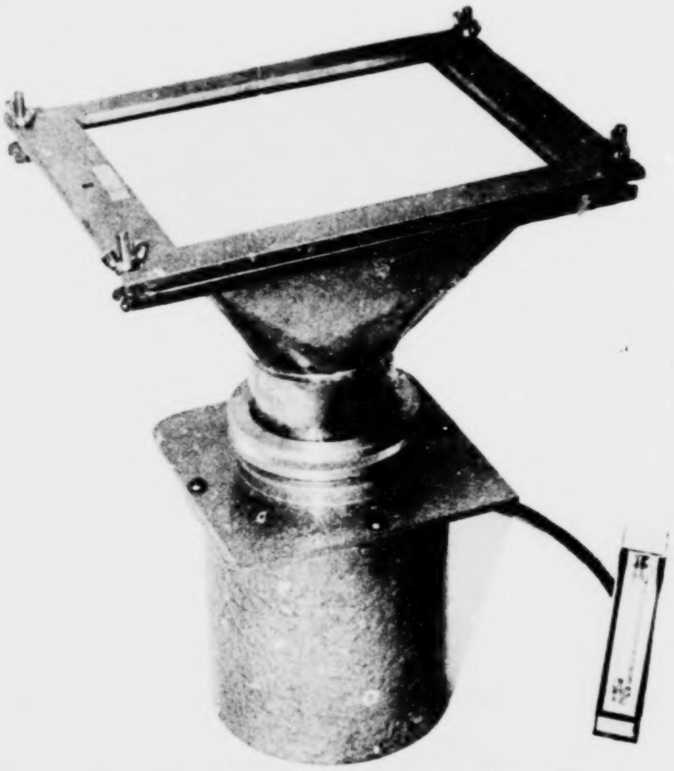

FIGURE 1.2—HIGH VOLUME AIR SAMPLER.

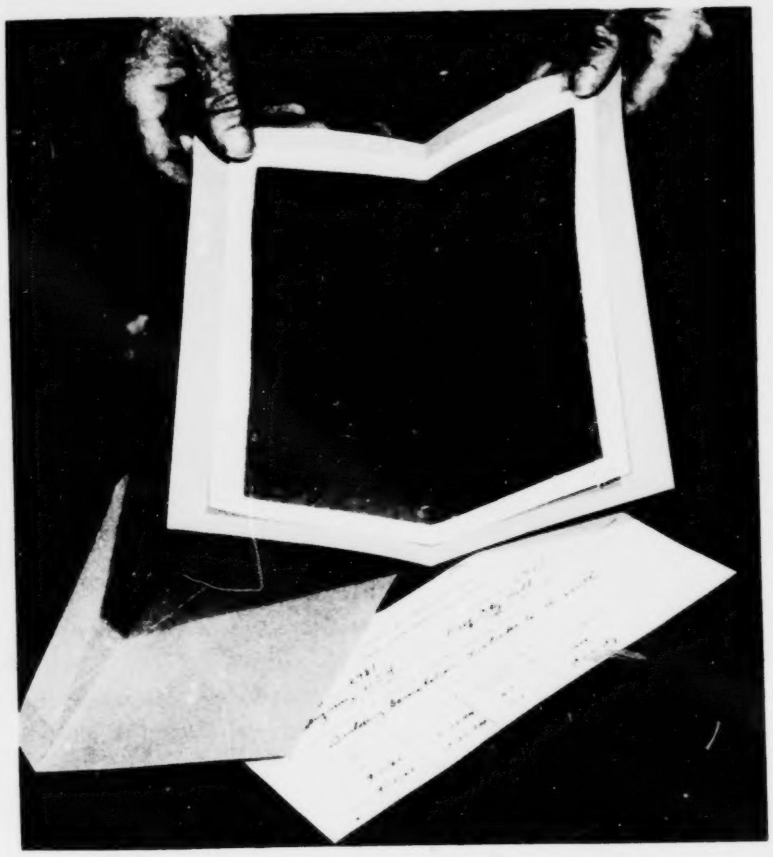

FIGURE 1.3—FILTER AND MAILING CONTAINER.

In urban areas with high levels of particulate air pollution the loading on the filter builds up quickly and some types of particulate matter cause clogging of the filter. This clogging may result in a nonlinear decrease in the airflow, and the average airflow computed as stated above may differ considerably from the true flow. To evaluate the error resulting from such a nonlinear reduction in air flow, flow regulators were used experimentally in Baltimore, Md., Dayton, Ohio, and Pittsburgh, Pa., during 1960 (6, 7). The flow regulator maintains a nearly constant airflow of 35 to 40 cfm over the 24-hour sampling interval. Based upon the favorable experimental results observed in the three cities mentioned previously, air samplers in other cities will be equipped with these flow regulators.

The shelter for the sampler, which may be converted readily into a shipping container, is shown as it is mounted at a typical sampling site (fig. 1.4). To insure a high degree of uniformity in filter exposure, the sampler is oriented so that the filter is horizontal and facing upward. Data from 10 cities for a year show that the average sampler flow results in an average velocity of 64 fpm across the horizontal air inlet portal of the shelter. Since flow is vertically upward, collection at this velocity is limited to particles 100 micron and less in diameter.

As soon as possible after collection, the filter is folded carefully, placed in a manila folder, and mailed to the Network laboratory in Cincinnati, Ohio. Upon receipt, the filter is weighed and divided into aliquots of suitable size for chemical analyses.

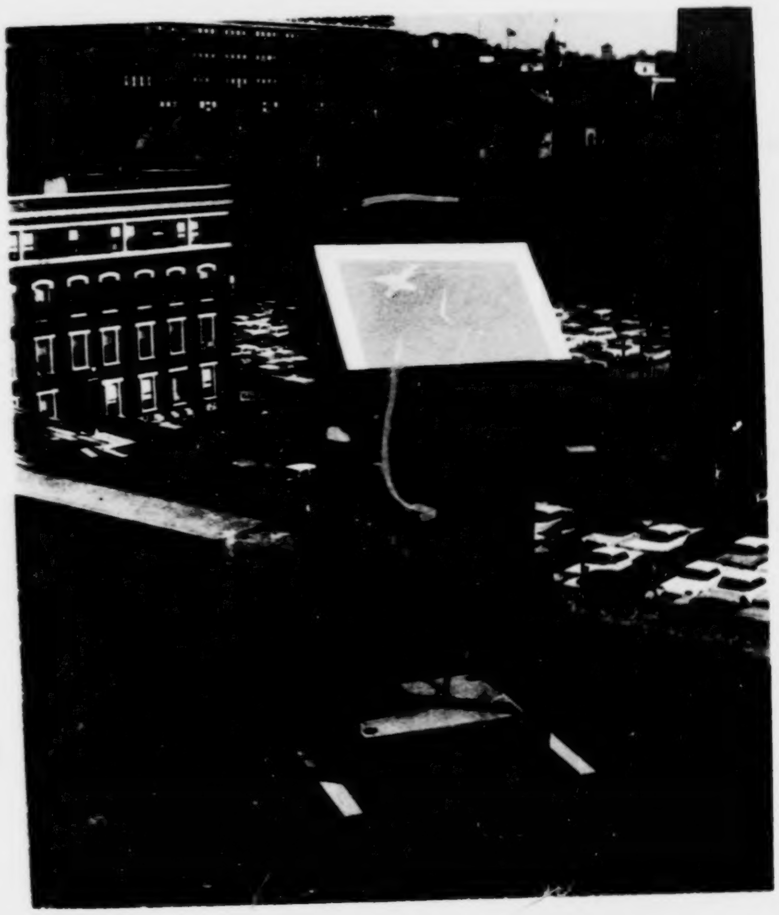
FIGURE 1.4—TYPICAL SITE.

SELECTION OF STATION LOCATIONS

It would be desirable to collect samples at more than one location in each city, but for the number of cities in the network such a program would be economically unfeasible. In addition, the National Air Sampling Network is not designed to substitute for intensive air pollution studies on a State or local level. For these reasons, the Network utilizes only one sampling site in each urban area Wherever possible, the station is located in a central business district and the sampler is placed not more than 50 feet above ground level. For nonurban stations location is not critical, since immediate sources of high emission are not a problem.

Recently the Public Health Service conducted an intensive air pollution study in Nashville, Tenn. (8). Measurements of suspended particulate matter with high-volume air samplers at 11 locations, 7 urban and 4 nonurban, afforded an opportunity to investigate the geographic variability of air pollution within a city. Analysis of these data showed that it is unlikely that measurements from any one station will be representative of the city as a whole (9). The results indicate that an average of measurements obtained at a station in the central business district and a nonurban station provides a reasonably good estimate of the mean of the entire city.

In the interpretation of the data presented in this report one must consider the limitations that are imposed upon these data by the design of the Network. As mentioned previously, measurements of particulates are obtained at one site in each community. Even though precautions are taken to insure that the sampling site is as representative as possible of the urban area as a whole, it is impossible to be certain that the measurements obtained at a specific site are not sometimes unduly influenced by local factors. Such factors might include topography, structures, and sources of pollution in the immediate vicinity of the site, and other variables, the effect of which cannot always be accurately anticipated. It must be kept in mind then, that when comparisons are made among pollution levels for various cities, they are valid only insofar as the sites are comparable.

SAMPLING SCHEDULE

The sampling schedule used by the Network calls for the collection of one 24-hour sample during each 2-week sampling period, or 26 samples per year. Schedules are prepared in advance for a full year and sent to each station in the Network. Currently the sampling procedure provides for the collection of a sample during the first week of the 2-week sampling period. If for some reason a sample is not collected on the specified day, a makeup sample may be taken during the second week.

The method for randomly selecting the sampling starting time and the sampling day has been described in detail(1). Briefly, all possible starting times (the hours 8 a.m. to 3 p.m.) for each of the 7 days in a week are listed and numbered sequentially. From a table of random numbers, 26 numbers are selected. Each number is then interpreted as an hour and a day of week from the listing just described. Finally, the day of week is converted to the appropriate calendar day. The station operator is free to start the sampler at any time during the designated hour.

VALIDITY OF BIWEEKLY SAMPLING

The validity of biweekly sampling as compared with more frequent sampling was treated at length in the previous Network publication using data from Philadelphia, Pa. (1). Since that publication is out of print and thus unavailable as a reference, the following resume of the discussion concerning the validity of biweekly sampling is presented here.

In Philadelphia the high-volume sampler located at City Hall annex was operated more or less continuously during 1955 and 1956. A total of 596 samples was collected: 289 in 1955, and 307 in 1956. From this complete set of samples a smaller set was selected for each year according to a random schedule prepared in the manner previously described. This produced a set of 25 values for each year, 1 less than the number prescribed, because of a shutdown during one of the sampling periods each year. The set of values selected differed from a true random sample in that the time of starting the sampler was more or less the same. This deviation from a truly random sample should not alter the results.

The level of total suspended particulate matter was used for a statistical comparison of daily and biweekly random sampling for 1956. The results of this comparison are presented in table 1.1. For reasons noted in Appendix A the statistical analysis was performed on the logarithms of observed values; thus mean concentrations are presented in the form of geometric means.

The cumulative frequency distributions for the two different sets of samples for 1956 are plotted on logarithmic probability graph paper (fig. 1.5). As would be expected on theoretical grounds, because of the larger amount of data the set of daily observations is more nearly log-normally distributed than the smaller set of biweekly observations; nevertheless, the smaller sample exhibits log-normal characteristics.

TABLE 1.1—COMPARATIVE STATISTICS FOR DAILY AND BIWEEKLY RANDOM SAMPLING OF SUSPENDED PARTICULATES

Philadelphia, Pa.

1956

(Concentration in micrograms per cubic meter)

	Daily	*Biweekly random*
Observations:		
Number of samples	307	25
Minimum concentration	68	136
Maximum concentration	761	308
Percentiles—10	128	146
20	148	160
30	167	171
40	184	184
50	200	191
60	217	203
70	234	227
80	271	274
90	325	285
Computed values:		
Geometric mean	200	203
95% confidence limits of mean	192–208	183–226
Standard deviation of logs (% of mean)	6.8	4.7
Standard geometric deviation	1.54	1.39
Upper 90% confidence limit of 95th percentile	363	346

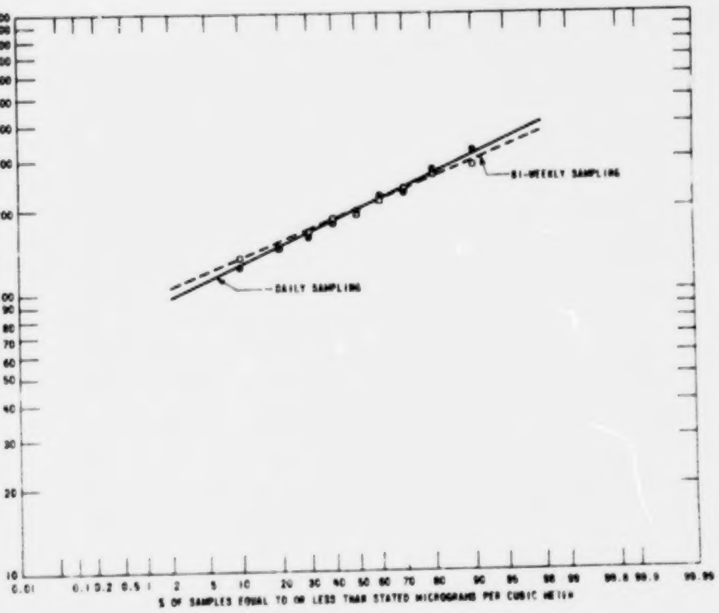

FIGURE 1.5—CUMULATIVE FREQUENCY DISTRIBUTION SUSPENDED PARTICULATE MATTER, PHILADELPHIA, PA., 1956, SITE 1.

The estimate of the geometric mean computed from the 25 random observations was in this instance approximately equal to the estimate provided by the daily sampling: the values were 203 and 200 μg/m³, respectively. Likewise, other sampling statistics computed from the biweekly random sample deviated only slightly from those computed for the daily sample.

The preceding analysis was based upon a comparison of sampling methods for one year. A 2-year comparison of biweekly random and daily sampling was also made for Philadelphia for the years 1955 and 1956. Results are presented in table 1.2. Estimates of the geometric mean concentration for the two sampling methods are 192 μg/m³ for biweekly random and 200 μg/m³ for daily sampling. The percentile values also agree quite well.

Another test of the reliability of a selective method of sampling is its ability to detect unusually high concentrations of particular contaminants. For this purpose the 95th-percentile value (i.e., the concentration exceeded 5 percent of the time) is of particular interest. Toward this end the upper 90 percent confidence limit of the 95th percentile was computed for the 1955–56 data by a method of Eisenhart, Hastay, and Wallis (10), which makes use of the sample mean and standard deviation. The limits were found to be 350 μg/³ for the biweekly random sample and 370 μg/m³ for the larger daily sample, a difference of only 6 percent. Thus on the basis of calculation from 50 samples randomly selected one can say with 90 percent confidence that under environmental conditions existing at sampling site 1 for 1955 and 1956 not more than 5 percent of the 24-hour total suspended particulate concentrations exceeded 350 μg/m³.

The data from the Nashville study also afford an opportunity to compare the results of biweekly sampling with daily sampling (9). The annual mean particulate concentration at the central business location, computed from samples collected daily, was found to be 157 μg/m³ as opposed to 160 μg/m³ for samples collected on 26 days selected at random, with one for each 2-week sampling period.

TABLE 1.2—COMPARATIVE STATISTICS FOR DAILY AND BIWEEKLY RANDOM SAMPLING OF SUSPENDED PARTICULATES

Philadelphia, Pa.

1955 to 1956

(Concentrations in micrograms per cubic meter)

	Daily	*Biweekly random*
Observations:		
Number of samples	596	50
Minimum concentration	56	56
Maximum concentration	761	308
Percentiles—10	123	134
20	146	146
30	161	162
40	178	182
50	198	194
60	218	217
70	237	232
80	275	264
90	321	282
Computed values:		
Geometric mean	200	192
95% confidence limits of mean	194–206	175–211
Standard deviation of logs (% of mean)	6. 8	6. 4
Standard geometric deviation	1. 43	1. 40
Upper 90% confidence limit of 95th percentile	370	350

For the entire city of Nashville (seven urban stations) the annual mean computed from samples collected daily was 125 $\mu g/m^3$; the annual mean computed from samples collected on only 1 day during each 2-week period was 143 $\mu g/m^3$.

SUMMARY OF FINDINGS

Mean and Maximum Concentrations

The analytical results from 18,608 samples (14,494 urban and 3,114 nonurban) collected during the years 1957 to 1961 are summarized briefly (table 1.3). Because of the extremely low levels of all pollutants at nonurban sites, only suspended particulate matter and the benzene-soluble organic fraction are routinely measured on nonurban samples.

Suspended Particulates.—The national urban mean[*] concentration of suspended particulates for 1957 to 1961 was 104 $\mu g/m^3$ with a maximum concentration of 1706 $\mu g/m^3$. The frequency distribution of mean concentrations, which for 190 cities ranged from 46 to 224 $\mu g/m^3$ (table 2.3), is shown graphically in figure 1.6. For 50 nonurban areas the national mean concentration was 27 $\mu g/m^3$, with means for specific sampling sites ranging from 7 to 59 $\mu g/m^3$ (table 2.6).

In general the mean level of suspended particulates for urban areas was nearly four times that for nonurban areas (table 1.3).

Benzene-Soluble Organics.—The mean concentration of organics for urban areas during 1957 to 1961 was 7.6 $\mu g/m^3$, with a maximum concentration of 123.9 $\mu g/m^3$ for an individual sample (table 1.3). For specific urban stations the mean concentrations ranged from 2.2 to 19.2 $\mu g/m^3$ (table 2.10). The distribution of means for all urban areas is shown in figure 1.7. In general the mean concentration of organics for urban areas was about five times that for nonurban stations (table 1.3).

TABLE 1.3—MEAN AND MAXIMUM CONCENTRATIONS OF SELECTED PARTICULATE CONTAMINANTS

1957 to 1961

(Micrograms per cubic meter)

Pollutant	*Urban*		*Nonurban*	
	Mean	*Maximum*	*Mean*	*Maximum*
Suspended particulates	104	1706	27	461
Benzene-soluble organics	7. 6	123. 9	1. 5	23. 5
Nitrates	1. 7	24. 8	....	....
Sulfates	9. 6	94. 0	....	....
Antimony	(a)	0. 230	....	....
Bismuth	(a)	0. 032	....	....
Cadmium	(a)	0. 170	....	....
Chromium	0. 020	0. 998	....	....
Cobalt	(a)	<0. 003	....	....
Copper	0. 04	2. 50	....	....
Iron	1. 5	45. 0	....	....
Lead	0. 6	6. 3	....	....
Manganese	0. 04	2. 60	....	....
Molybdenum	(a)	0. 34	....	....
Nickel	0. 028	0. 830	....	....
Tin	0. 03	1. 00	....	....
Titanium	0. 03	1. 14	....	....
Vanadium	(a)	1. 200	....	....
Zinc	0. 01	8. 40	....	....
Radioactivity	[b] 4. 6	[b] 5435.0	....	....

[a] Indicates less than minimum detectable quantity.

[b] Picocuries per cubic meter.

Radioactivity.—Interest in measuring the radioactivity of the atmosphere has been stimulated by the ever-increasing uses of atomic energy for industrial and medical purposes and by the occurrence of fallout in the testing of nuclear devices, which are primarily military. Generally the sources of such contamination are beyond the control of city and State agencies. Since the beginning of the National Air Sampling Network, measurements of beta-radioactivity have been made on most particulate samples collected. The mean monthly level of atmospheric radioactivity on a national basis for urban and nonurban stations combined for 1957 to 1961 is shown graphically in fig. 1.8.

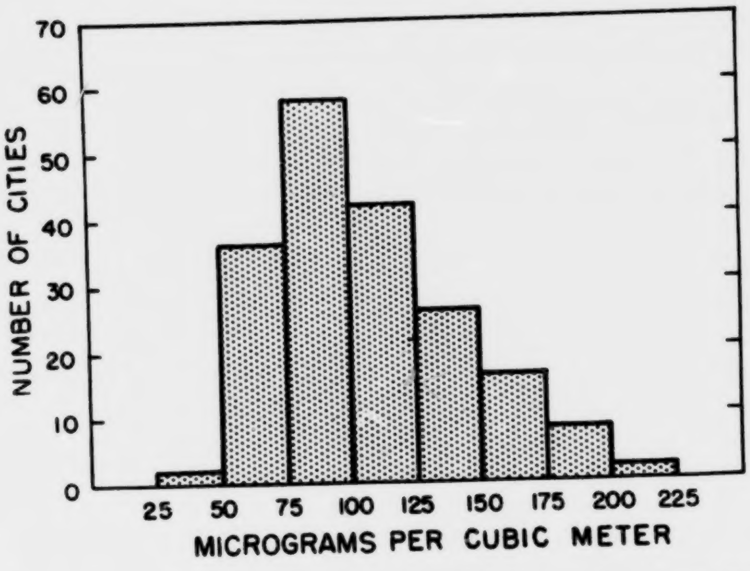

FIGURE 1.6—DISTRIBUTION OF MEAN CONCENTRATIONS OF SUSPENDED PARTICULATE MATTER FOR 190 CITIES, 1957–61.

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[*] Except as otherwise specified, "mean" values are geometric means as defined in part 5.

TABLE 2.2 — SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
FLORIDA	57	50	31	45	52	58	64	69	75	81	87	100	168	72	68	1.38
	58	52	39	54	64	78	87	94	101	110	133	166	220	101	93	1.48
	59	74	25	42	50	56	62	71	81	91	100	117	173	77	71	1.49
	60	52	23	56	64	77	84	90	102	116	139	166	233	100	93	1.52
	61	98	23	38	42	45	50	57	63	73	83	94	170	64	59	1.48
	57 61	326	23	42	49	57	63	73	82	91	103	125	233	80	73	1.53
GEORGIA	57	52	37	57	69	80	87	96	107	117	131	151	228	104	97	1.46
	58	71	20	45	56	67	74	85	101	121	147	203	336	107	90	1.79
	59	47	30	40	61	69	76	92	102	119	141	163	338	101	89	1.66
	60	73	22	46	57	74	87	97	106	120	137	170	754	111	93	1.77
	61	75	28	38	55	62	66	71	75	87	99	118	194	77	71	1.50
	57 61	318	20	45	58	68	75	86	98	111	128	162	754	99	87	1.67
HAWAII	57	25	30	33	34	36	37	40	43	50	59	81	87	47	45	1.36
	58	23	30	32	42	45	50	56	59	62	70	85	123	59	56	1.40
	59	25	38	43	46	51	54	58	60	64	76	99	120	63	60	1.34
	60	26	29	36	39	42	43	46	49	51	54	59	79	47	46	1.23
	61	25	21	26	30	34	36	39	42	47	50	64	117	43	40	1.43
	57 61	124	21	33	37	40	43	47	51	56	62	79	123	52	49	1.40
IDAHO	57	26	48	68	76	87	94	107	117	124	151	189	207	115	107	1.47
	58	25	29	57	64	80	87	101	112	127	139	166	189	101	93	1.56
	59	26	45	64	81	99	110	120	131	139	151	197	435	133	119	1.60
	60	24	73	70	90	101	115	123	132	146	157	174	242	126	120	1.38
	61	26	27	54	61	76	85	99	110	117	127	139	164	96	89	1.55
	57 61	127	27	60	73	85	99	111	120	130	145	171	435	114	105	1.53
ILLINOIS	58	68	32	93	127	143	166	189	211	241	272	321	549	201	180	1.65
	59	47	22	61	73	85	107	151	174	199	230	302	714	166	133	1.97
	60	21	88	135	151	157	163	171	177	191	214	270	296	182	176	1.30
	61	75	36	67	82	104	118	134	151	193	222	254	400	151	133	1.66
	58 61	211	22	70	91	116	138	161	184	208	240	290	714	173	151	1.73
INDIANA	57	96	13	75	88	107	118	131	144	166	214	288	978	165	139	1.76
	58	70	73	120	139	155	170	197	234	266	311	[illegible]	945	238	211	1.62
	59	93	56	82	103	125	151	169	186	204	230	[illegible]	570	176	158	1.60
	60	125	56	88	107	117	126	140	154	177	208	256	525	160	146	1.52
	61	127	28	67	82	99	112	123	134	146	166	197	317	129	118	1.55
	57 61	511	13	77	99	114	127	142	160	181	219	284	978	167	147	1.65
IOWA	57	26	77	90	107	127	155	168	180	191	208	234	458	176	160	1.53
	58	46	71	87	99	111	118	127	144	163	203	238	360	151	140	1.48
	59	25	71	83	90	151	159	172	180	200	214	244	462	174	159	1.55
	60	25	61	76	112	127	155	168	176	254	278	321	329	183	164	1.63
	61	50	6	64	83	91	97	103	115	132	146	173	392	120	106	1.79
	57 61	172	6	80	92	106	119	136	156	172	203	248	462	154	137	1.66
KANSAS	57	26	41	57	62	72	80	90	111	119	135	151	332	104	93	1.58
	58	22	52	70	81	107	127	137	146	157	174	197	301	137	126	1.53
	59	45	30	47	54	66	76	90	97	105	119	141	230	90	83	1.54
	60	48	22	64	78	86	97	110	122	134	142	161	203	111	102	1.56
	61	47	35	54	67	73	80	90	98	107	120	139	202	93	88	1.43
	57 61	188	22	53	67	76	86	97	108	122	137	160	332	104	95	1.55
KENTUCKY	61	21	73	90	107	113	118	127	139	151	166	180	319	139	132	1.40
LOUISANA	57	50	52	68	83	95	107	124	139	157	189	254	316	139	125	1.58
	58	25	43	57	62	78	82	88	94	107	115	127	142	91	86	1.41
	59	51	22	48	58	66	76	90	98	105	118	151	302	95	85	1.60
	60	52	57	65	72	80	85	92	105	114	124	145	352	106	98	1.44
	61	50	47	64	74	81	87	94	103	115	127	161	197	103	97	1.40
	57 61	228	22	59	70	79	87	96	106	118	133	172	352	108	99	1.53

TABLE 2.2—SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MAINE	58	23	44	64	76	85	94	107	127	158	173	227	233	125	113	1.61
	59	21	43	43	50	59	70	90	99	107	117	127	209	90	82	1.55
	60	24	50	49	54	66	72	76	82	90	107	127	147	82	78	1.36
	61	26	33	42	45	64	70	78	85	90	100	107	182	81	75	1.50
	58 61	94	33	45	56	68	76	84	92	104	119	158	233	94	85	1.54
MARYLAND	57	26	77	94	103	113	118	127	141	151	180	241	301	150	141	1.42
	58	25	65	79	84	93	100	112	122	151	166	214	287	127	118	1.46
	59	25	63	85	96	117	133	151	161	175	197	254	343	153	142	1.50
	60	25	48	72	81	94	103	120	151	168	180	278	495	148	127	1.72
	61	26	74	85	96	110	117	127	137	144	161	180	340	142	132	1.44
	57 61	127	48	80	91	103	114	126	141	158	176	239	495	144	132	1.51
MASSACHUSETTS	57	124	21	42	58	71	83	95	107	124	145	180	253	103	92	1.66
	58	122	20	43	51	60	70	81	93	111	148	214	326	102	85	1.83
	59	191	16	37	48	59	71	82	92	107	127	163	449	94	80	1.77
	60	272	12	38	47	55	64	75	84	96	114	147	254	85	74	1.71
	61	289	15	44	53	59	66	74	84	97	115	141	309	85	77	1.59
	57 61	998	12	40	51	59	68	79	89	104	123	159	449	91	79	1.70
MICHIGAN	57	97	34	50	66	83	96	107	117	130	156	180	303	113	102	1.60
	58	75	11	51	66	76	86	99	110	120	135	180	246	103	92	1.70
	59	78	49	67	76	88	101	117	138	159	177	244	468	138	127	1.63
	60	102	30	51	62	74	82	90	105	134	156	175	258	107	96	1.62
	61	74	39	58	68	76	87	98	109	123	147	180	354	112	101	1.55
	57 61	426	11	55	68	78	89	101	115	132	157	186	458	114	102	1.63
MINNESOTA	57	50	25	51	72	83	93	107	127	142	163	214	722	136	110	1.84
	58	50	39	54	66	74	84	99	122	138	151	234	335	120	105	1.68
	59	52	19	35	47	52	62	72	83	95	127	151	375	89	74	1.83
	60	51	43	54	70	81	88	101	110	117	124	141	231	101	95	1.43
	61	78	24	39	54	62	71	80	90	100	109	127	220	83	75	1.56
	57 61	281	19	45	57	69	79	89	101	115	134	162	722	103	89	1.71
MISSISSIPPI	57	24	15	19	48	54	62	68	76	84	90	139	198	76	66	1.79
	58	24	39	46	51	54	76	81	85	107	135	166	199	92	83	1.59
	59	26	32	42	48	57	62	69	76	83	96	107	229	77	70	1.56
	60	24	27	38	54	64	69	72	75	85	94	107	124	74	70	1.43
	61	20	26	27	42	64	70	76	90	107	139	180	279	98	81	1.92
	57 61	118	15	40	50	57	66	73	80	89	105	142	279	83	73	1.65
MISSOURI	57	51	70	107	131	142	155	176	190	204	220	248	436	178	168	1.41
	58	48	55	110	127	139	154	168	184	206	234	311	345	184	172	1.47
	59	46	27	76	87	110	121	151	172	197	244	302	658	172	146	1.81
	60	52	63	92	100	120	134	142	151	184	206	244	343	155	145	1.45
	61	50	56	76	86	99	113	127	144	159	172	203	300	135	125	1.49
	57 61	247	27	86	103	122	138	152	169	189	212	261	658	165	150	1.55
MONTANA	57	25	17	27	32	45	61	85	107	122	139	214	466	109	75	2.41
	58	26	18	26	30	43	50	64	76	90	107	139	377	91	63	2.01
	59	25	12	21	24	28	31	54	64	71	76	96	101	51	43	1.91
	60	26	11	19	27	35	40	50	59	64	83	96	141	55	46	1.87
	61	25	13	30	33	37	45	52	64	76	85	117	168	62	53	1.78
	57 61	127	11	24	29	35	46	57	68	81	98	124	466	72	55	2.04
NEBRASKA	57	52	65	82	93	101	109	120	131	142	163	194	248	128	122	1.37
	58	22	45	70	79	87	96	107	115	123	143	166	230	111	105	1.43
	59	23	18	76	107	111	116	123	127	151	180	278	823	167	133	1.96
	60	51	22	43	65	71	78	88	104	123	139	161	220	99	89	1.62
	61	26	19	50	57	70	81	93	104	111	123	139	182	95	86	1.63
	57 61	174	18	62	75	86	97	108	119	131	146	180	823	117	105	1.62

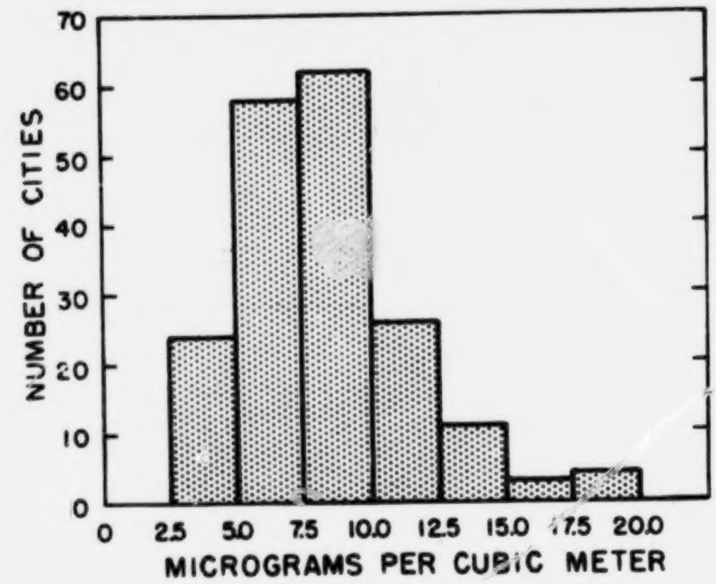

FIGURE 1.7—DISTRIBUTION OF MEAN CONCENTRATIONS OF BENZENE-SOLUBLE ORGANICS FOR 190 CITIES, 1957–61.

Several peaks are immediately obvious. The occurrences of these peaks have been shown to be directly associated with the testing of nuclear devices (5). Following the termination of such tests in 1958 the levels of radioactivity dropped and were barely detectable until the fall of 1961, when testing was resumed and measurable quantities of radioactive debris again appeared in the atmosphere.

Trends in Levels of Air Pollution

The annual mean concentrations of suspended particulates for all urban sampling stations (table 2.1) is shown graphically in figure 1.9. Based upon these data, there appears to be about a 5 percent reduction in the mean level each year. Since the structure of the network changes from year to year, the data probably do not represent a true picture of the trend. Therefore, the annual mean for the every-year urban stations is also shown.

The mean level of suspended particulates for the every-year urban stations is higher than that for all urban stations. This is as expected, since the every-year stations are primarily in the largest cities.

For the every-year stations the level of suspended particulates appears to have changed little from 1957 to 1960; however, there was a pronounced decrease from 1960 to 1961. Whether this abrupt change is indicative of a trend or is an anomaly due to a difference in the weather pattern for 1961 can be determined only after data from additional years become available.

Air Pollution and Population

Each city that has a Network sampling station is classified into one of eight broad population categories according to 1960 census figures (part 3). The category to which each has been assigned is included with the site description.

Data on suspended particulates and benzene-soluble organics for 1957 to 1961 are summarized by population category in table 1.4. The mean concentration for each population category is shown graphically for suspended particulates in figure 1.10 and for organics in figure 1.11. A relationship between population and air pollution is indicated, in that the concentrations of both types of pollutant are significantly higher for the larger cities. For example, the mean concentration of organics for the cities with the largest population was 13.5 $\mu g/m^3$, whereas the mean for cities with population less than 25,000 was 3.6 $\mu g/m^3$

Using National Air Sampling Network data for the years 1957 to 1959, Hilst and Bryan (11) also studied the relationship between air pollution levels and population. They concluded that the concentration of both suspended particulates and organics is proportional to a power of the total population.

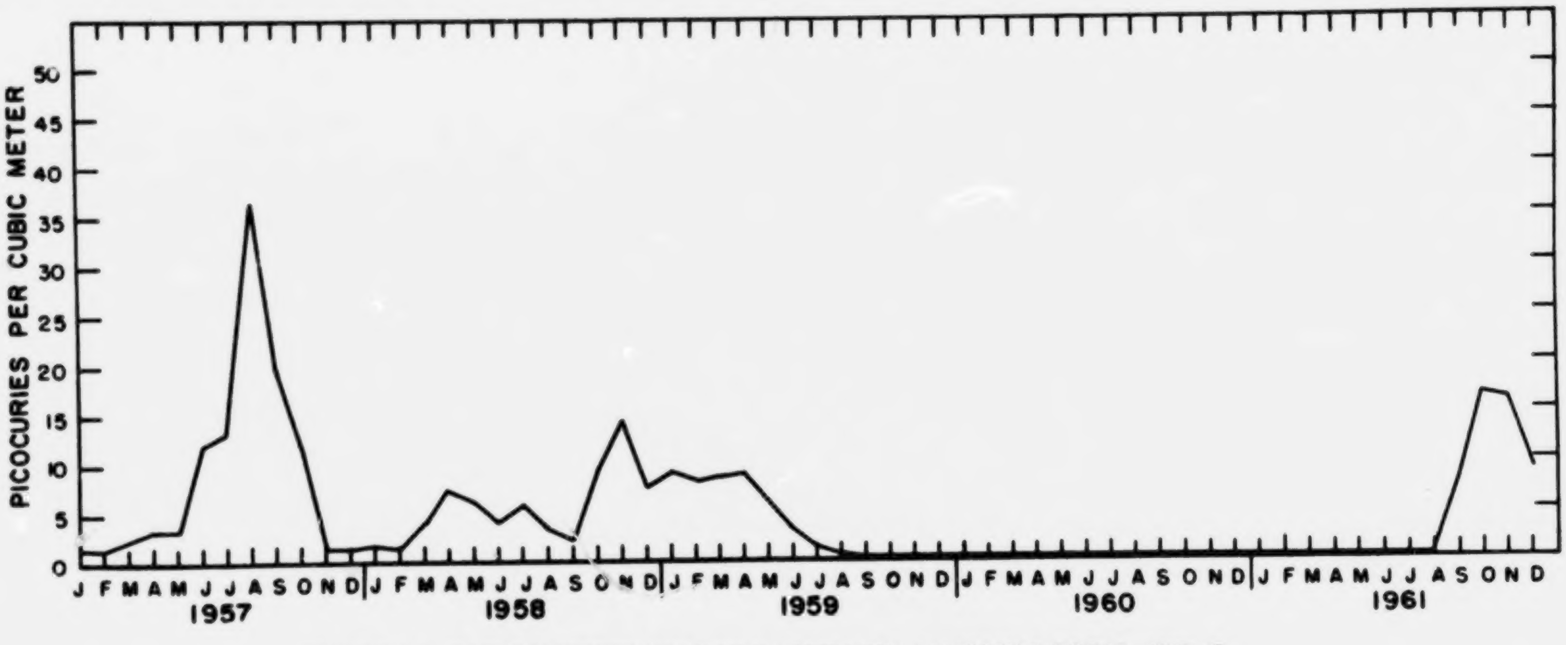

FIGURE 1.8—RADIOACTIVITY MONTHLY AVERAGES, NATIONAL TOTAL, 1957–61.

TABLE 1.4—SUSPENDED PARTICULATES AND BENZENE-SOLUBLE ORGANICS BY POPULATION OF URBAN SAMPLING SITES

1957 to 1961

Population	Number of cities	Number of samples	Micrograms per cubic meter									Standard geometric deviation
			Minimum	Frequency distribution (percent)					Maximum	Arith-metic mean	Geometric mean	
				10	30	50	70	90				
SUSPENDED PARTICULATES												
3 million or more	2	216	65	105	148	175	213	281	714	189	176	1.46
1-3 million	3	368	48	90	121	156	196	274	594	169	154	1.54
700,000-1 million	7	846	14	59	93	122	162	233	658	136	119	1.71
400,000-700,000	19	2,133	15	58	85	112	145	216	977	129	113	1.68
100,000-400,000	87	6,353	10	49	74	100	133	204	1,706	117	101	1.76
50,000-100,000	60	3,511	6	45	69	92	126	212	978	115	96	1.85
25,000-50,000	8	779	10	29	49	69	97	151	487	84	69	1.89
10,000-25,000	4	288	11	26	43	62	88	155	466	80	63	2.00
National urban	190	14,494	6	48	74	101	137	212	1,706	118	104	1.89
BENZENE-SOLUBLE ORGANICS												
3 million or more	2	214	3.6	7.9	10.7	13.3	16.5	23.2	56.0	14.7	13.5	1.51
1-3 million	3	368	2.1	5.9	8.7	11.5	17.1	29.6	69.4	15.2	12.4	1.87
700,000-1 million	7	845	0.8	3.9	6.8	9.3	12.7	20.7	87.5	11.2	9.2	1.90
400,000-700,000	19	2,109	0.8	4.0	6.2	8.3	11.7	20.1	109.6	10.8	8.7	1.91
100,000-400,000	87	6,350	0.0	3.2	5.3	7.3	10.5	19.1	123.9	9.9	7.7	2.07
50,000-100,000	60	3,510	0.2	2.9	4.9	7.0	9.9	18.5	104.0	9.4	7.3	2.08
25,000-50,000	8	778	0.0	1.7	3.1	4.1	6.0	11.2	41.2	5.6	4.3	2.04
10,000-25,000	4	287	0.0	1.4	2.2	3.1	4.6	12.8	86.3	6.0	3.6	2.53
National urban	190	14,461	0.0	3.0	5.2	7.4	10.6	19.3	123.9	9.9	7.6	2.08

TABLE 1.5—SUSPENDED PARTICULATES AND BENZENE-SOLUBLE ORGANICS BY TOPOGRAPHIC CLASS OF NONURBAN SAMPLING SITES

1957 to 1961

Topographic class	Number of stations	Number of samples	Micrograms per cubic meter									Standard geometric deviation
			Minimum	Frequency distribution (percent)					Maximum	Arith-metic mean	Geometric mean	
				10	30	50	70	90				
SUSPENDED PARTICULATES												
Atlantic coast	5	359	3	14	23	29	38	54	198	33	29	1.72
Desert	5	330	1	5	12	21	37	72	403	34	21	2.76
Farmland	12	788	2	14	25	35	50	74	461	42	34	1.96
Forest	7	514	2	9	15	23	32	48	170	27	22	1.95
Great Lakes coast	5	228	6	12	22	32	49	84	295	44	33	2.12
Gulf coast	3	159	3	17	23	28	33	51	201	33	29	1.68
Mountain	8	527	1	5	13	24	35	57	225	29	21	2.50
Pacific coast	5	209	6	16	29	39	65	107	314	55	42	2.12
National nonurban	50	3,114	1	9	19	29	40	68	461	36	27	2.20
BENZENE-SOLUBLE ORGANICS												
Atlantic coast	5	359	0.0	0.7	1.1	1.6	2.3	3.7	19.9	2.1	1.6	2.38
Desert	5	330	0.0	0.7	0.8	0.9	1.8	2.6	8.3	1.5	1.1	2.67
Farmland	12	788	0.0	0.8	1.5	1.9	2.8	4.6	23.5	2.5	1.9	2.10
Forest	7	514	0.0	0.7	0.9	1.5	1.9	3.1	17.3	1.8	0.4	2.07
Great Lakes coast	5	228	0.0	0.7	1.3	1.6	2.4	3.2	7.4	2.0	1.7	1.83
Gulf coast	3	159	0.0	0.7	1.3	1.6	2.0	3.9	12.2	2.0	1.6	2.05
Mountain	8	527	0.0	0.7	0.8	1.4	1.9	3.0	10.0	1.7	1.3	2.23
Pacific coast	5	209	0.0	0.7	1.0	1.7	2.4	4.2	16.7	2.2	1.6	2.62
National nonurban	50	3,114	0.0	0.7	0.9	1.6	2.2	3.7	23.5	2.0	1.5	2.27

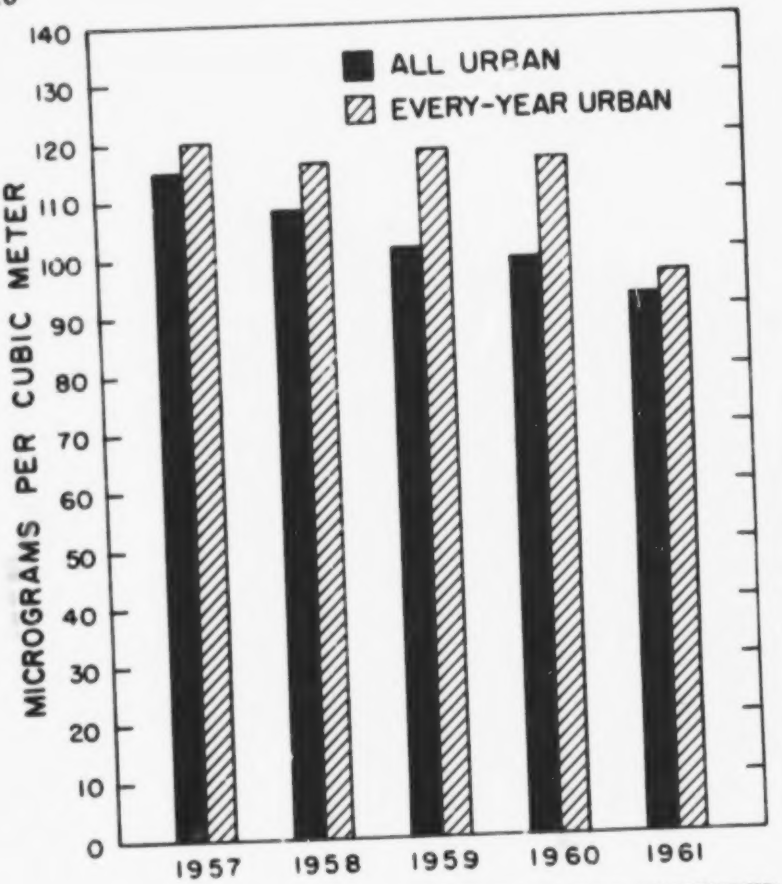

FIGURE 1.9—ANNUAL MEAN CONCENTRATION OF SUSPENDED PARTICULATES, ALL URBAN AND EVERY-YEAR URBAN SAMPLING SITES, 1957–61.

$$Xo \propto P_o^B$$

where X = mean concentration

P_o = population

B = a constant

Air Pollution and Topography

Each nonurban station is classified into one of eight topographic categories (part 3). These categories, admittedly somewhat arbitrary, are based upon geographic location and land use. The category to which each nonurban station is assigned is included with the site description.

Data on suspended particulates and benzene-soluble organics for 1957 to 1961 are summarized by topographic category in table 1.5. Since for nonurban areas the atmospheric concentrations of both types of pollutant are quite low, it is quite doubtful that significance can be attached to the slight difference in the mean concentrations of the pollutants for the respective topographic categories.

Geographic Pattern of Air Pollution in the United States

The geographic pattern of air pollution is shown by plotting the mean urban concentration of suspended particulates for each State on a map of the continental United States (fig. 1.12).

In interpreting the map it should be recognized that data from each State was provided by volunteer cooperation in that State.

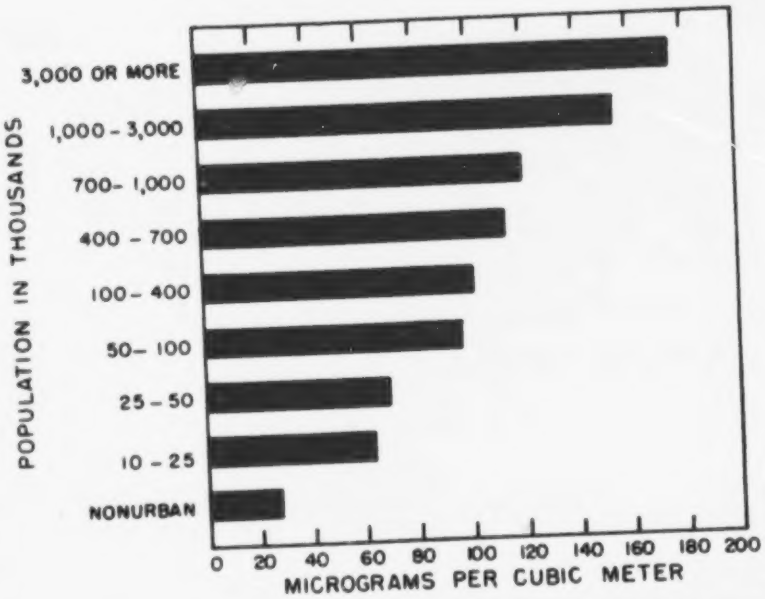

FIGURE 1.10—MEAN CONCENTRATION OF SUSPENDED PARTICULATE MATTER BY POPULATION OF CITIES, 1957–61.

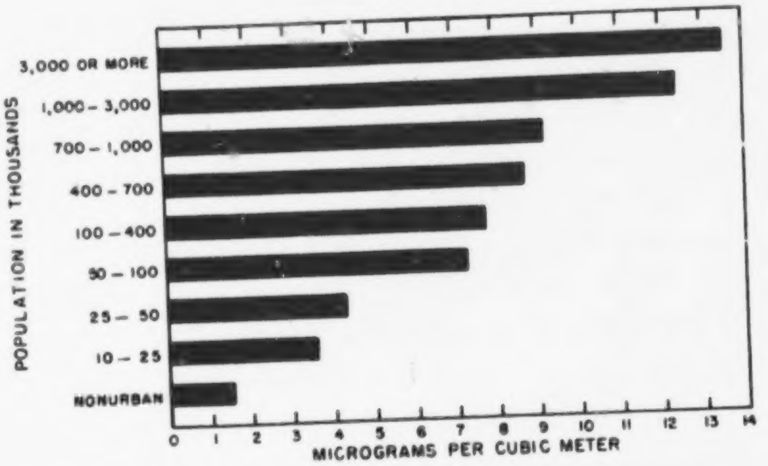

FIGURE 1.11—MEAN CONCENTRATION OF BENZENE-SOLUBLE ORGANICS BY POPULATION OF CITIES, 1957–61.

The extent of coverage both in terms of years sampled and number of stations varied with the extent of local participation obtained (for example, see table 2.2). In order to make figure 1.12 complete, data were included from one or two States from which inadequate data were obtained.

With the exception of such States as Arizona, Nevada, and New Mexico, the higher levels of particulate air pollution occur in the more industrialized, heavily populated areas of the United States. Thus any geographic pattern in air pollution levels is probably associated with the geographic location of the larger urban complexes.

Weekday versus Weekend Concentrations

The list of sources that contribute to the air pollution problem of a community includes not only industrial and commercial establishments but also the activities of the people, such as the movement of automobiles, home heating, rubbish burning, etc. If industry were entirely responsible for the problem of air pollution, then the levels of atmospheric contamination should show a marked decrease during the times when indus-

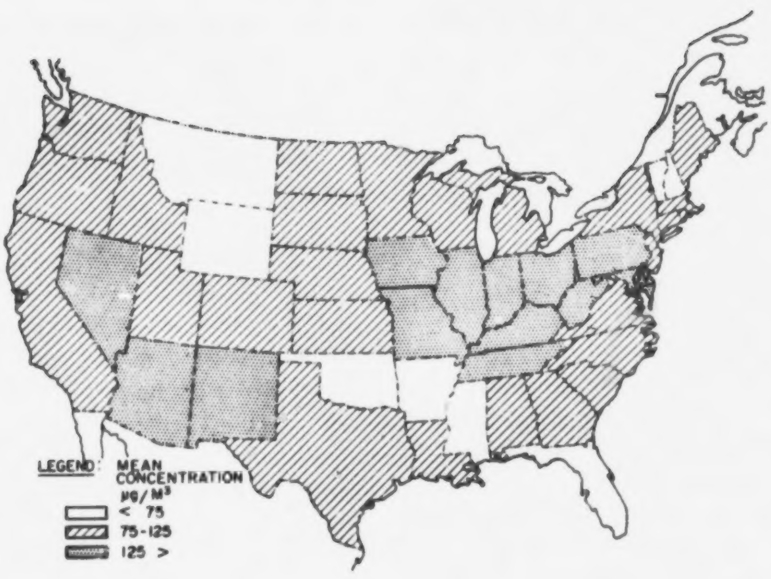

FIGURE 1.12—MEAN URBAN CONCENTRATION OF SUSPENDED PARTICULATE MATTER BY STATE, 1957–61.

trial activity is at its lowest on weekends. For determination of such a possible correlation, the mean concentrations of both suspended particulates and organics on weekdays and weekends was computed for urban and nonurban areas, and are presented in figures 1.13 and 1.14. (A weekend sample is defined as one for which the 24-hour sampling period ended on Sunday.)

For urban areas as a group the weekend levels for the two types of pollutants were about 15 percent lower than the corresponding weekday levels. Even though these observed differences are significant statistically, they are not of the magnitude that might be expected. There are probably several explanations for this: not all industrial sources of particulate matter are curtailed on weekends; some of the suspended particulates collected may have been emitted before the sampling period began; and, finally, the contribution of certain municipal, domestic, and transportation sources may increase on the weekend. At the nonurban stations no difference is observed between the weekend and the weekday levels of either suspended particulate or organic pollutants.

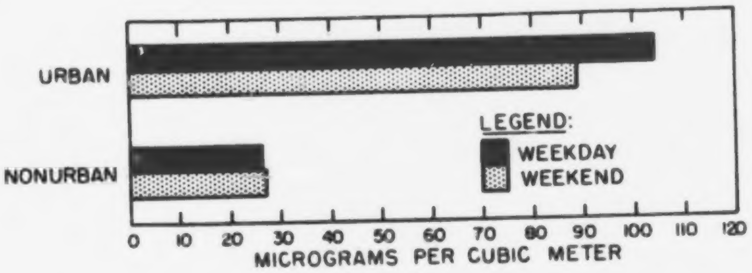

FIGURE 1.13—WEEKDAY AND WEEKEND POLLUTION LEVELS, SUSPENDED PARTICULATES, 1957–61.

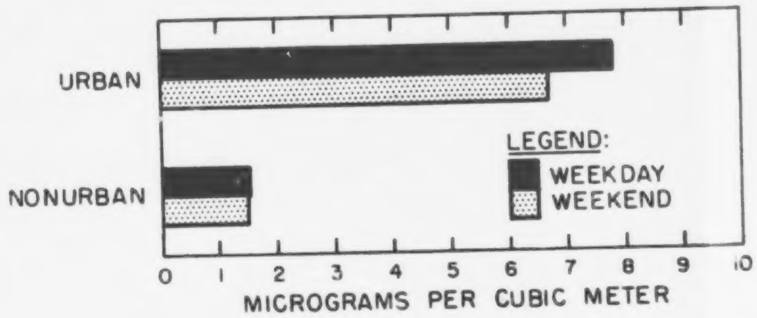

FIGURE 1.14—WEEKDAY AND WEEKEND POLLUTION LEVELS, BENZENE-SOLUBLE ORGANICS, 1957–61.

PART 2—DATA TABLES

CRITERIA FOR INCLUSION OF DATA IN TABLES

Each year a schedule is sent to the operator of each Network sampling station specifying exactly when each sample is to be collected. The schedule provides for the collection of 1 sample in each 2-week interval, or 26 samples per year. Situations may arise, however, in which no sample is collected during the 2-week interval. Because of such deviations from the established schedule, the resulting data might not adequately represent the sampling year. For this reason the following criteria were established for the inclusion of data in this report:

1. A minimum of 20 samples and a maximum of 26 samples collected during any one year.
2. A minimum of 10 and a maximum of 13 samples collected in each half of a year.
3. At most three samples collected in any one month.
4. At most seven samples collected in any one quarter.
5. Samples collected during at least 2 of 3 months in a quarter.

REGIONAL GROUPINGS

The regional grouping of States used in this report corresponds to the regional organization of the U.S. Department of Health, Education, and Welfare. Geographical designations have been added, since these names are more meaningful than the numerical designations alone.

Region 1—New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont.

Region 2—Mid-Atlantic: Delaware, New Jersey, New York, Pennsylvania.

Region 3—Mideast: District of Columbia, Kentucky, Maryland, North Carolina, Puerto Rico, Virginia, West Virginia.

Region 4—Southeast: Alabama, Florida, Georgia, Mississippi, South Carolina, Tennessee.

Region 5—Midwest: Illinois, Indiana, Michigan, Ohio, Wisconsin.

Region 6—Great Plains: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota.

Region 7—Gulf South: Arkansas, Louisiana, New Mexico, Oklahoma, Texas.

Region 8—Rocky Mountain: Colorado, Idaho, Montana, Utah, Wyoming.

Region 9—Pacific coast: Alaska, Arizona, California, Hawaii, Nevada, Oregon, Washington.

FREQUENCY DISTRIBUTION TABLES—YEARLY AND CUMULATIVE

Frequency distributions for individual years and cumulative over the years 1957 to 1961 are presented for suspended particulate matter, benzene-soluble organics, and the following inorganic constituents: nitrates, sulfates, chromium, copper, iron, lead, manganese, nickel, tin, titanium, and zinc. For suspended particulate matter the summaries are presented on a national, regional (Public Health Service designation), State, and individual station basis for all urban stations (tables 2.1, 2.2, and 2.3). Because there is only one such station in each State, the State summaries are not given for the nonurban stations (tables 2.5 and 2.6). The summaries of benzene-soluble organic data are presented in a like manner (tables 2.8, 2.9, 2.10, 2.12, and 2.13). Since chemical analysis for inorganic pollutants has been done on samples from only a relatively small number of urban stations, summaries for this class of pollutant are presented only on a national, regional, and station basis (tables 2.18, 2.20, 2.22, 2.24, 2.26, 2.28, 2.30, 2.32, 2.34, 2.36, and 2.38).

The tables show the number of samples analyzed, the minimum and the maximum concentrations, the arithmetic and the geometric means, the percentiles of the cumulative frequency distribution, and the standard geometric deviation. The computations necessary to obtain these statistics were performed by an electronic computer. Such entries as the number of samples, the minimum values, and the maximum values require no explanation. The other terms are described in detail in part 5.

Certain other aspects of the tables require clarification. It will be observed that blank spaces appear in some columns, e.g., chromium data in table 2.22. The blank in the minimum column indicates that for at least one sample the concentration of chromium was less than the minimum quantity detectable by the method of chemical analysis. Blanks in the columns of the percent cumulative frequency distribution indicates that quantities of chromium in the corresponding percentage of all samples were below minimum detectable levels. Finally, if at least 10 percent of the values are less than the minimum detectable value, the geometric mean and the standard geometric deviation are not computed, and no entries appear in the tables.

FREQUENCY DISTRIBUTION TABLES—SEASONAL

Seasonal variability is shown for suspended particulate matter and benzene-soluble organics for individual urban (tables 2.4 and 2.11) and nonurban stations (tables 2.7 and 2.14). Data for each station for all years are separated into four seasons, the beginning dates of which are as follows: winter, December 1; spring, March 1; summer, June 1; autumn, September 1. The frequency distribution data previously described are computed for each season. Because of the small number of samples seasonal frequency distributions for cities with only 1 year of data may appear erratic. In such cases no interpretation of the percentiles should be made.

FREQUENCY DISTRIBUTION TABLES—PERCENT ORGANIC

For each sample the percent of the suspended particulate that is soluble in benzene (percent organic) is computed. Frequency distributions for individual years and all years have been computed on a station basis for both urban and nonurban stations (table 2.15). The content of these tables differs slightly from the frequency distribution tables previously discussed. First, only the 10, 30, 50, 70, and 90 percentiles of the cumulative frequency distributions of the percent organic are included. Second, the correlation coefficient (see part 5), which shows the relationship between the concentrations of suspended particulates and benzene-soluble organics is also included. The correlation coefficient can range in value from −1 to +1; in this table the correlation coefficient varies from near zero (no relationship) to near 1 (when the percent organic in the particulate matter is nearly constant).

MONTHLY RADIOACTIVITY TABLES

The measurements of radioactivity for urban and nonurban sampling sites have been combined and summarized by month on a national, regional, and State basis (tables 2.16 and 2.17). Only the number of samples analyzed and the minimum, maximum, and arithmetic mean values are given. On these tables a blank indicates no data for a given month; the value 0.0 denotes that the level of radioactivity was less than the minimum detectable amount. Concentrations of radioactivity are given in picocuries (micro-microcuries) per cubic meter.

QUARTERLY HEAVY, QUARTERLY COMPOSITE TABLES

These tables (tables 2.19, 2.21, 2.23, 2.25, 2.27, 2.29, 2.31, 2.33, 2.35, 2.37, and 2.39) consist of raw data obtained from analysis of (1) the sample representing the highest concentration of suspended particulates and, in most cases, (2) a composite of all samples collected in each quarter of the year indicated.

TRACE METALS TABLES

The atmospheric concentrations of some of the metals (antimony, bismuth, cadmium, cobalt, molybdenum, and vanadium) are so low that only an occasional sample shows a value above the minimum detectable quantity. For these metals abbreviated tables are presented (tables 2.40 through 2.45). These tables, presented for individual stations only, contain the number of samples analyzed, the number of values above minimum detectable, and the maximum value.

DATA TABLES

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TABLE 2.1 — SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE REGIONAL AND NATIONAL SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57	2360	13	54	71	86	101	117	134	154	182	238	978	134	115	1.78
	58	2446	11	51	67	79	92	106	124	144	174	230	945	127	108	1.81
	59	2788	12	45	61	74	86	100	116	138	170	221	1706	122	101	1.86
	60	3276	10	47	61	74	86	99	115	133	159	203	958	115	99	1.78
	61	3634	6	45	57	67	78	90	104	121	145	187	883	106	92	1.79
	57 61	14494	6	48	62	74	87	101	117	137	165	212	1706	118	104	1.89
NEW ENGLAND	57	248	20	42	57	69	82	94	106	122	141	178	314	102	90	1.69
	58	311	20	42	51	62	71	82	94	109	139	179	326	98	84	1.76
	59	358	16	38	45	58	69	80	89	103	120	151	449	89	77	1.71
	60	469	12	40	49	58	68	78	87	99	115	150	254	87	76	1.67
	61	479	15	43	52	59	65	72	81	93	110	136	309	83	75	1.57
	57 61	1865	12	41	51	60	69	79	89	103	122	155	449	90	79	1.68
MID ATLANTIC	57	293	26	65	83	101	120	141	160	182	220	283	534	158	136	1.77
	58	269	23	58	76	89	105	120	135	153	190	235	412	135	118	1.68
	59	510	17	53	70	82	96	111	132	158	188	246	977	138	115	1.81
	60	562	19	44	59	72	84	98	117	137	163	211	520	115	98	1.81
	61	616	17	48	63	79	94	106	122	143	168	205	743	123	105	1.77
	57 61	2250	17	51	67	81	95	111	129	151	178	231	977	130	110	1.80
MID EAST	57	197	28	59	73	87	99	112	126	146	169	234	655	134	115	1.69
	58	194	27	53	67	78	86	96	108	127	154	184	708	116	100	1.67
	59	244	20	52	66	75	86	98	113	132	167	246	612	127	106	1.79
	60	273	37	59	70	79	87	99	112	128	153	214	958	122	105	1.65
	61	296	19	45	55	63	75	86	99	116	142	197	863	111	90	1.83
	57 61	1204	19	52	65	75	85	97	111	128	157	213	958	121	102	1.75
SOUTH EAST	57	253	15	54	65	77	84	92	105	121	143	172	317	105	95	1.59
	58	292	20	54	70	82	92	102	117	143	185	259	640	136	112	1.81
	59	298	25	44	57	67	76	90	103	122	148	190	456	108	92	1.74
	60	323	22	53	68	79	90	102	116	133	157	207	754	118	103	1.69
	61	395	11	41	51	60	68	78	89	104	123	176	426	95	81	1.73
	57 61	1561	11	48	60	71	81	92	105	122	149	198	754	112	95	1.74
MID WEST	57	422	13	70	87	105	118	132	148	170	205	258	978	151	133	1.65
	58	411	11	78	95	111	123	138	154	178	218	278	945	162	142	1.69
	59	471	22	70	87	102	117	133	154	175	202	244	714	149	132	1.64
	60	498	30	65	85	101	116	129	146	165	197	231	525	142	127	1.61
	61	528	28	61	74	88	103	116	129	146	171	212	400	127	114	1.60
	57 61	2330	11	67	85	101	115	129	145	166	195	243	978	145	129	1.64
GREAT PLAINS	57	255	25	65	80	93	107	124	139	156	180	214	722	136	120	1.63
	58	239	22	64	79	93	109	122	136	153	179	236	360	137	121	1.66
	59	242	18	44	59	73	84	99	115	134	172	223	823	122	98	1.92
	60	275	22	56	71	84	97	111	125	141	162	201	358	121	107	1.68
	61	302	6	45	60	72	81	91	100	112	131	160	392	99	88	1.66
	57 61	1313	6	52	69	81	93	107	122	140	164	206	823	122	105	1.74
GULF SOUTH	57	247	14	50	64	80	99	116	133	157	188	239	630	133	112	1.84
	58	247	16	57	66	73	82	93	105	121	141	175	473	108	97	1.59
	59	237	22	39	53	64	74	85	96	108	127	168	1706	105	85	1.80
	60	301	10	48	61	72	82	92	104	117	138	193	646	110	93	1.76
	61	417	10	45	55	62	70	78	88	100	119	153	504	93	81	1.67
	57 61	1449	10	47	59	68	78	89	102	117	141	167	1706	108	91	1.75
ROCKY MOUNTAIN	57	123	15	34	55	68	83	100	115	129	147	192	466	108	90	1.90
	58	124	16	36	47	59	69	80	90	107	125	161	377	90	77	1.77
	59	127	12	27	44	56	68	81	94	107	137	176	435	95	76	2.04
	60	123	11	29	42	55	71	87	101	118	137	166	309	94	76	2.02
	61	123	10	24	36	50	61	74	88	104	122	163	407	89	69	2.08
	57 61	620	10	30	45	58	70	83	97	114	135	171	466	95	77	1.98
PACIFIC COAST	57	322	27	44	61	86	110	126	146	173	214	294	488	147	119	1.96
	58	359	11	40	56	70	86	102	126	150	190	239	639	126	105	2.02
	59	301	16	41	56	69	85	104	124	148	195	260	594	129	103	1.98
	60	452	18	42	54	65	78	95	115	137	166	212	573	116	95	1.87
	61	468	19	42	55	67	81	98	115	137	164	209	449	114	95	1.85
	57 61	1902	11	42	56	69	85	104	123	147	180	239	639	125	101	1.94

TABLE 2.2 — SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA	57	25	50	64	82	90	101	117	127	166	175	214	285	130	117	1.59
	58	45	46	72	92	100	107	124	191	244	321	427	640	196	155	1.98
	59	51	31	51	64	71	80	99	117	141	173	207	449	121	102	1.77
	60	50	29	48	66	79	96	122	146	168	203	254	400	138	115	1.87
	61	52	26	47	56	62	69	76	95	107	139	203	306	102	87	1.73
	57 61	223	26	52	65	76	91	105	123	156	193	264	640	136	112	1.86
ALASKA	57	26	40	45	59	90	127	180	234	266	302	325	338	181	144	2.12
	58	26	24	27	45	85	96	127	145	180	214	234	487	138	106	2.19
	59	25	16	32	35	45	50	64	83	117	127	151	281	83	65	2.07
	60	26	18	28	31	58	64	83	96	107	166	197	269	97	74	2.19
	61	25	19	25	26	38	41	45	64	76	107	151	243	68	54	1.98
	57 61	128	16	27	37	45	67	86	112	142	185	254	487	114	83	2.27
ARIZONA	57	26	119	133	145	170	197	230	254	273	302	393	488	247	226	1.52
	58	23	95	107	122	135	151	206	222	238	254	331	410	201	186	1.49
	59	25	60	117	135	180	197	227	254	302	325	359	410	232	208	1.66
	60	50	36	76	113	127	144	168	197	225	254	393	573	202	172	1.79
	61	49	57	92	105	116	127	151	174	221	254	302	449	175	156	1.63
	57 61	173	36	98	117	132	151	187	217	243	282	350	573	205	181	1.67
ARKANSAS	57	26	34	43	54	59	62	76	87	99	120	135	170	84	77	1.54
	58	26	44	54	61	68	72	83	99	107	127	139	190	92	85	1.46
	59	26	31	50	57	64	67	72	76	97	107	117	155	79	74	1.46
	60	26	29	32	38	54	58	64	76	85	101	117	147	72	66	1.57
	61	25	33	40	45	50	54	76	82	90	101	139	169	78	70	1.60
	57 61	129	29	41	51	59	66	73	83	96	110	131	190	81	74	1.53
CALIFORNIA	57	169	27	52	79	94	111	127	150	173	206	297	470	150	125	1.84
	58	216	11	40	55	69	81	98	124	153	188	237	566	124	98	2.05
	59	174	23	42	66	90	105	121	141	172	212	271	594	143	117	1.93
	60	230	22	46	59	70	82	96	112	131	158	189	383	111	96	1.72
	61	226	20	50	62	73	86	101	120	141	167	201	311	116	100	1.74
	57 61	1015	11	46	61	76	91	107	127	151	180	234	594	127	105	1.87
COLORADO	57	24	15	76	96	107	122	132	141	161	180	214	264	135	121	1.76
	58	25	41	57	64	83	96	110	117	127	151	180	265	111	100	1.58
	59	24	39	54	72	92	99	103	107	161	180	241	274	130	115	1.67
	60	25	54	76	90	103	110	120	127	141	151	197	229	126	118	1.43
	61	25	48	57	64	70	74	90	101	127	151	278	341	115	97	1.74
	57 61	123	15	60	73	90	100	111	125	142	166	214	341	123	110	1.64
CONNECTICUT	57	75	20	52	66	80	93	107	118	131	147	200	314	113	100	1.68
	58	94	28	48	59	67	74	83	94	106	130	161	267	96	87	1.58
	59	74	37	43	59	69	80	87	96	109	122	144	247	93	85	1.51
	60	101	25	48	61	73	83	92	100	108	123	161	248	97	89	1.56
	61	94	26	45	57	62	68	74	82	93	117	143	211	86	79	1.50
	57 61	438	20	47	59	68	77	87	98	111	127	155	314	97	87	1.57
DELAWARE	57	25	77	96	107	122	139	170	189	214	278	340	481	190	170	1.62
	58	23	53	59	114	127	137	151	197	227	254	331	412	185	161	1.75
	60	25	99	133	145	180	214	234	247	266	278	296	403	221	210	1.41
	61	23	79	85	107	120	135	157	168	180	254	302	743	194	163	1.73
	57 61	96	53	95	114	132	148	172	206	239	273	302	743	198	175	1.64
DIST. OF COL.	58	24	66	72	83	90	97	102	107	133	145	166	177	111	106	1.35
	59	22	38	54	61	69	74	81	90	107	139	214	231	103	91	1.61
	60	22	76	83	92	99	103	107	127	139	214	234	242	135	126	1.45
	61	24	30	38	76	96	110	117	124	151	189	214	268	128	112	1.75
	58 61	92	30	64	75	89	97	104	117	133	157	208	268	119	108	1.56

TABLE 2.2 — SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEVADA	57	25	54	115	123	134	141	151	163	180	203	241	468	166	153	1.47
	58	22	70	76	107	119	127	135	143	151	214	302	639	173	149	1.66
	60	21	50	76	96	107	117	132	141	151	191	214	389	145	131	1.57
	61	23	76	90	114	127	134	144	151	180	214	302	428	170	155	1.52
	57 61	91	50	90	111	121	131	140	149	174	204	248	639	164	147	1.55
NEW HAMPSHIRE	58	20	25	32	43	50	59	68	76	83	90	107	134	68	63	1.55
	59	20	26	30	34	37	42	48	54	64	76	90	223	61	53	1.66
	60	21	32	32	42	48	54	62	66	71	76	107	156	66	61	1.52
	61	21	29	32	47	50	54	59	62	68	76	99	117	63	59	1.42
	58 61	82	25	31	40	47	53	58	64	71	83	101	223	65	59	1.53
NEW JERSEY	57	72	26	51	110	133	145	159	172	195	246	290	366	170	147	1.83
	58	70	33	50	58	64	73	86	102	120	139	168	278	101	89	1.64
	59	50	47	54	70	102	127	144	162	180	194	208	278	142	129	1.60
	60	94	19	45	74	86	107	119	131	145	160	177	247	118	105	1.73
	61	75	25	51	61	72	82	95	105	125	151	180	427	110	96	1.66
	57 61	361	19	50	67	83	100	119	136	153	173	207	427	127	110	1.75
NEW MEXICO	57	22	114	120	135	161	180	190	199	209	270	302	375	201	192	1.37
	58	24	52	64	107	120	163	174	189	214	241	302	360	177	160	1.63
	59	25	40	90	127	151	166	187	206	254	321	393	1706	256	190	2.00
	60	26	61	117	151	180	197	222	246	270	331	393	646	244	215	1.68
	61	22	63	76	90	117	127	151	191	214	254	331	429	184	160	1.73
	57 61	119	40	93	119	146	169	189	205	232	278	346	1706	214	183	1.71
NEW YORK	57	123	38	55	68	77	92	104	122	142	169	220	347	123	107	1.68
	58	51	52	91	88	101	114	127	142	158	176	224	389	140	128	1.50
	59	312	17	48	62	73	84	96	109	130	161	207	532	118	99	1.77
	60	319	19	40	52	61	70	82	96	117	142	180	520	100	84	1.80
	61	320	17	42	52	62	75	90	103	120	144	182	311	102	87	1.76
	57 61	1125	17	44	57	68	80	93	106	127	152	196	532	110	93	1.78
NORTH CAROLINA	57	51	28	57	66	78	90	101	115	133	148	174	322	112	100	1.59
	58	72	34	47	60	70	77	85	97	114	137	150	308	101	90	1.61
	59	51	37	46	52	59	69	81	90	102	122	151	326	94	83	1.61
	60	77	52	73	82	93	104	116	126	142	168	203	306	127	117	1.47
	61	76	28	47	55	61	68	77	86	96	120	189	365	97	83	1.69
	57 61	327	28	51	62	72	81	91	103	120	143	185	365	106	94	1.62
NORTH DAKOTA	57	24	51	54	69	74	96	107	120	135	143	180	220	110	101	1.51
	58	26	22	32	48	57	64	80	90	101	120	139	324	94	78	1.86
	59	25	18	23	38	64	69	76	81	88	111	123	221	77	65	1.86
	60	26	24	42	50	61	70	101	120	151	166	175	187	103	87	1.85
	61	25	19	43	48	59	68	79	84	94	103	139	216	83	74	1.64
	57 61	126	18	40	51	63	72	82	95	111	129	159	324	93	80	1.77
OHIO	57	181	48	78	100	118	133	149	168	194	226	269	406	164	149	1.56
	58	172	44	82	95	109	119	129	140	152	179	226	431	143	133	1.47
	59	202	40	75	94	109	120	134	151	170	193	226	445	145	133	1.53
	60	203	37	63	88	103	115	129	144	163	189	233	417	142	128	1.59
	61	203	37	61	77	88	104	117	130	147	172	205	374	126	114	1.58
	57 61	961	37	72	89	105	118	130	145	165	192	233	445	144	130	1.56
OKLAHOMA	57	20	22	42	47	50	54	72	83	99	127	143	268	87	75	1.75
	58	25	38	54	61	66	68	71	73	76	82	90	98	71	69	1.25
	59	21	38	40	45	59	68	78	82	86	90	117	146	76	71	1.44
	60	23	42	50	66	71	76	82	86	90	99	117	173	84	80	1.36
	61	48	20	42	54	60	67	73	82	92	98	105	128	75	70	1.49
	57 61	137	20	43	52	63	69	74	80	87	97	110	268	78	72	1.47

TABLE 2.2—SUSPENDED PARTICULATE MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OREGON	57	26	32	38	45	59	67	76	107	120	139	151	315	99	82	1.83
	58	25	26	27	38	61	90	96	99	105	139	180	334	99	81	1.94
	59	26	21	42	50	61	67	76	84	90	127	180	208	91	78	1.76
	60	24	21	30	43	50	57	60	63	76	99	127	185	70	62	1.68
	61	70	23	42	52	61	74	85	100	116	139	172	249	98	86	1.71
	57 61	171	21	37	48	58	66	80	93	107	131	171	334	93	80	1.77
PENNSYLVANIA	57	73	62	84	104	130	151	172	195	224	260	321	534	195	172	1.66
	58	125	23	64	83	96	111	127	144	166	193	247	404	142	126	1.66
	59	148	42	72	89	107	124	149	169	200	243	302	977	178	149	1.79
	60	124	34	59	79	87	99	111	125	149	190	230	475	131	115	1.66
	61	198	28	79	97	108	120	133	152	170	193	249	537	154	138	1.60
	57 61	668	23	72	88	102	117	133	155	177	209	271	977	157	136	1.69
PUERTO RICO	57	21	45.	47	50	54	61	69	74	80	87	107	132	73	70	1.34
	59	24	54	57	64	68	74	78	83	90	101	117	121	81	79	1.26
	60	23	53	56	61	64	69	76	81	85	90	117	179	80	76	1.33
	61	24	52	51	57	61	67	73	78	85	90	151	209	84	79	1.42
	57 61	92	45	52	58	63	68	74	79	85	94	116	209	80	76	1.34
RHODE ISLAND	57	23	73	79	87	93	99	107	120	132	141	180	253	117	112	1.37
	58	26	53	76	85	97	104	120	139	151	180	214	294	136	124	1.53
	59	26	43	54	61	70	76	87	99	107	151	170	192	98	90	1.53
	60	26	56	67	73	83	90	103	120	151	173	191	223	119	109	1.52
	61	25	33	50	56	61	64	73	81	99	112	127	136	80	74	1.47
	57 61	126	33	59	69	79	88	98	110	126	149	180	294	110	100	1.54
SOUTH CAROLINA	57	50	55	62	77	84	91	99	106	134	151	172	285	111	104	1.46
	58	24	42	59	83	92	100	105	111	123	151	180	263	117	108	1.51
	59	23	37	36	40	43	45	59	64	70	76	107	119	63	59	1.47
	60	48	39	64	76	87	97	105	116	127	143	214	285	119	108	1.54
	61	50	11	47	51	58	68	78	87	100	115	127	233	85	76	1.67
	57 61	195	11	50	61	72	83	93	102	115	132	167	285	102	91	1.62
SOUTH DAKOTA	57	26	51	54	59	68	76	81	87	90	114	127	169	88	83	1.40
	58	25	38	67	73	93	99	107	115	127	151	197	268	116	106	1.56
	59	26	27	27	54	62	68	83	101	117	180	203	268	102	83	1.96
	60	22	25	32	50	64	72	80	87	127	166	214	358	108	87	1.95
	61	26	20	30	40	45	51	59	68	76	84	90	161	63	57	1.59
	57 61	125	20	41	53	63	72	81	89	106	127	176	358	95	81	1.75
TENNESSEE	57	52	68	80	88	104	114	123	136	151	170	224	317	135	126	1.44
	58	76	48	76	86	97	106	132	164	189	241	340	532	171	144	1.77
	59	77	47	76	93	113	124	138	151	177	210	254	456	156	140	1.59
	60	76	45	69	82	94	107	125	142	162	193	254	361	139	125	1.60
	61	100	28	64	82	93	106	119	134	155	203	246	426	140	123	1.67
	57 61	381	28	73	85	98	112	126	144	168	202	259	532	149	131	1.64
TEXAS	57	129	14	49	64	80	101	116	132	162	189	239	630	137	112	1.91
	58	147	16	59	68	75	86	98	110	125	142	167	473	109	98	1.58
	59	114	23	34	43	57	70	80	90	102	118	148	361	87	75	1.73
	60	174	10	45	57	69	81	92	102	115	129	170	385	101	87	1.73
	61	272	10	44	53	59	65	73	83	95	113	148	504	88	77	1.67
	57 61	836	10	45	56	65	75	87	99	114	136	173	630	102	87	1.75
UTAH	57	22	68	81	90	107	117	127	135	143	166	197	267	132	125	1.39
	58	24	44	56	62	70	81	85	90	117	151	173	229	101	92	1.53
	59	26	45	54	64	81	85	90	114	127	161	180	333	117	103	1.65
	60	25	47	64	76	84	90	103	117	143	161	214	309	121	108	1.61
	61	22	36	64	83	94	103	114	127	151	214	254	407	145	124	1.76
	57 61	119	36	60	78	84	91	105	120	139	161	200	407	122	109	1.60

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
VERMONT	57	26	24	32	36	41	44	50	57	64	71	76	83	53	50	1.42
	58	26	22	23	30	35	40	45	50	52	64	72	156	51	45	1.59
	59	26	22	29	32	38	40	44	54	64	82	87	122	55	49	1.58
	60	25	25	30	34	42	47	52	57	64	76	96	106	56	52	1.49
	61	24	19	32	42	47	54	61	67	76	85	101	117	63	58	1.55
	57 61	127	19	29	34	39	44	50	55	65	75	88	156	55	51	1.53
VIRGINIA	57	51	50	64	76	90	96	103	111	121	134	151	232	106	101	1.38
	58	50	27	45	58	64	81	88	101	119	145	168	209	98	88	1.63
	59	75	35	51	66	73	81	91	101	115	132	189	343	105	94	1.59
	60	77	37	45	55	65	71	77	83	89	107	127	247	85	79	1.48
	61	99	19	37	45	52	59	68	78	90	102	125	206	75	68	1.61
	57 61	352	19	44	54	64	73	82	92	103	119	149	343	90	81	1.59
WASHINGTON	57	25	41	54	61	90	110	117	122	135	151	214	446	125	107	1.72
	58	24	37	42	54	61	90	101	117	151	170	214	250	111	95	1.79
	59	26	35	45	54	66	71	78	85	90	103	127	166	82	77	1.48
	60	75	32	48	56	64	71	83	110	137	166	227	347	113	94	1.81
	61	50	31	48	56	64	72	82	95	107	139	173	361	100	87	1.65
	57 61	200	31	47	56	64	74	87	104	124	150	191	446	107	92	1.72
WEST VIRGINIA	57	48	44	76	107	135	158	170	189	234	273	359	655	205	172	1.82
	58	23	45	54	80	87	99	139	166	214	254	427	708	192	146	2.10
	59	47	20	90	107	121	145	174	214	273	376	410	612	221	180	2.00
	60	49	55	64	81	93	110	127	143	186	214	286	958	175	138	1.88
	61	26	55	81	90	133	145	227	270	302	404	604	883	281	211	2.16
	57 61	193	20	71	89	111	133	159	189	235	290	408	958	210	166	1.98
WISCONSIN	57	48	56	70	99	111	123	137	155	176	206	254	367	153	139	1.58
	58	26	89	96	107	116	121	132	146	158	180	203	358	148	140	1.40
	59	51	31	51	76	86	97	111	121	132	146	214	340	119	106	1.63
	60	47	49	85	99	111	123	145	163	184	203	227	299	152	140	1.51
	61	49	30	55	62	71	90	102	113	127	147	203	282	113	100	1.65
	57 61	221	30	62	83	98	111	122	136	154	185	225	367	135	122	1.61
WYOMING	57	26	22	29	32	46	50	54	58	61	67	73	130	56	51	1.51
	58	24	16	23	36	40	45	51	57	68	76	90	100	55	50	1.59
	59	26	13	19	23	35	40	47	52	57	64	72	94	47	41	1.69
	60	23	13	15	19	32	34	37	40	45	51	64	82	39	34	1.67
	61	25	10	17	18	21	23	27	34	42	50	61	68	33	29	1.66
	57 61	124	10	18	23	32	38	44	50	56	62	75	130	46	40	1.69

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BIRMINGHAM	57	25	50	64	82	90	101	117	127	166	175	214	285	130	117	1.59
	58	20	46	54	96	107	117	127	197	234	359	427	640	211	163	2.09
	59	26	31	50	64	99	117	143	170	187	207	254	449	153	125	1.95
	60	25	38	64	72	83	90	120	151	180	214	286	400	146	122	1.86
	61	26	47	57	64	73	94	107	127	151	203	254	306	131	113	1.75
	57 61	122	31	54	71	90	106	121	151	178	209	281	640	152	126	1.85
MOBILE	58	25	62	76	90	97	102	117	151	254	302	427	485	185	150	1.91
	60	25	29	48	54	76	99	133	145	166	180	241	284	129	108	1.89
	58 60	50	29	54	73	92	101	120	146	180	238	302	485	157	127	1.93
MONTGOMERY	59	25	44	57	64	69	73	80	87	99	107	139	165	87	82	1.40
	61	26	26	42	50	57	60	64	73	81	96	107	157	72	67	1.48
	59 61	51	26	45	56	61	66	73	80	90	102	122	165	79	74	1.46
ALASKA																
ANCHORAGE	57	26	40	45	59	90	127	180	234	266	302	325	338	181	144	2.12
	58	26	24	27	45	85	96	127	145	180	214	234	487	138	106	2.19
	59	25	16	32	35	45	50	64	83	117	127	151	281	83	65	2.07
	60	26	18	28	31	38	64	83	96	107	166	197	269	97	74	2.19
	61	25	19	25	26	38	41	45	64	76	107	151	243	68	54	1.98
	57 61	128	16	27	37	45	67	86	112	142	185	254	487	114	83	2.27
ARIZONA																
PHOENIX	57	26	119	133	145	170	197	230	254	273	302	393	488	247	226	1.52
	58	23	95	107	122	135	151	206	222	238	254	331	410	201	186	1.49
	59	25	60	117	135	180	197	227	254	302	325	359	410	232	208	1.66
	60	25	98	117	127	166	187	207	234	302	376	427	573	247	219	1.65
	61	26	93	107	115	127	180	227	247	264	292	321	449	214	195	1.57
	57 61	125	60	113	127	151	191	218	241	271	307	374	573	229	207	1.58
TUCSON	60	25	36	68	76	114	127	141	151	180	222	246	521	157	135	1.75
	61	23	57	64	94	103	112	127	139	151	166	197	308	131	121	1.50
	60 61	48	36	66	90	104	118	132	146	163	180	230	521	145	128	1.63
ARKANSAS																
LITTLE ROCK	57	26	34	43	54	59	62	76	87	99	120	135	170	84	77	1.54
	58	26	44	54	61	68	72	83	99	107	127	139	190	92	85	1.46
	59	26	31	50	57	64	67	72	76	97	107	117	155	79	74	1.46
	60	26	29	32	38	54	58	64	76	85	101	117	147	72	66	1.57
	61	25	33	40	45	50	54	76	82	90	101	139	169	78	70	1.60
	57 61	129	29	41	51	59	66	73	83	96	110	131	190	81	74	1.53
CALIFORNIA																
BERKELEY	59	25	28	38	45	64	72	107	117	133	145	197	228	102	88	1.79
	61	26	20	36	40	50	57	64	76	117	139	151	286	89	72	1.93
	59 61	51	20	36	42	55	63	74	110	127	142	180	286	95	79	1.86
BURBANK	57	25	41	90	101	120	139	166	180	206	254	359	433	182	156	1.80
	60	26	49	107	135	155	163	176	194	207	241	278	383	186	171	1.55
	57 60	51	41	90	112	137	156	172	188	206	244	331	433	184	163	1.67
FRESNO	58	24	18	19	70	83	101	110	117	127	151	214	372	122	99	2.03
	60	25	45	61	76	90	101	115	123	139	151	173	304	119	109	1.54
	58 60	49	18	57	72	87	101	112	120	131	151	175	372	121	104	1.79
GLENDALE	59	24	93	101	127	143	180	194	207	234	254	302	495	201	184	1.53
	61	24	54	57	70	83	99	107	127	145	161	214	263	121	110	1.55
	59 61	48	54	70	95	105	127	144	168	197	222	266	495	161	143	1.64
LONG BEACH	58	25	48	90	127	145	158	180	191	208	234	393	566	195	169	1.74
	61	26	65	76	90	100	107	133	151	166	191	214	283	140	130	1.49
	58 61	51	48	76	96	114	136	155	173	191	210	254	566	167	148	1.64
LOS ANGELES	57	24	89	99	139	161	189	206	254	283	302	345	361	219	201	1.55
	58	21	111	127	151	170	191	222	238	254	270	286	296	214	206	1.34
	59	23	70	90	107	117	127	151	170	191	214	302	594	180	158	1.63
	60	25	50	90	110	118	124	156	166	180	197	234	344	156	143	1.55
	61	26	83	99	107	133	145	158	169	176	197	214	302	162	154	1.38
	57 61	119	50	99	116	133	155	170	186	208	250	289	594	185	169	1.52

TABLE 2.3—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev *
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OAKLAND	58	25	23	38	50	67	73	93	100	127	151	203	289	104	87	1.87
	60	25	37	54	64	76	82	90	101	120	135	166	243	100	91	1.56
	61	24	41	64	68	70	74	76	81	88	107	139	243	89	83	1.41
	58 61	74	23	47	65	70	75	83	92	107	130	170	289	98	87	1.62
PASADENA	57	23	64	81	107	115	123	143	156	166	175	203	219	138	131	1.40
	60	26	38	59	76	112	122	137	151	161	175	197	381	137	122	1.66
	57 60	49	38	64	90	114	125	139	151	163	175	200	381	138	126	1.54
RICHMOND	58	22	19	27	38	50	59	68	76	83	99	127	186	74	63	1.78
	60	26	31	39	42	54	59	67	76	81	88	96	113	67	63	1.43
	58 60	48	19	35	42	48	59	67	76	83	89	104	186	70	63	1.59
SACRAMENTO	58	25	11	16	38	54	61	76	85	161	180	254	403	113	78	2.54
	60	26	22	42	59	68	72	79	87	94	107	120	149	81	74	1.54
	58 60	51	11	32	48	60	69	78	87	103	135	180	403	96	76	2.04
SAN BERNARDINO	57	20	35	90	120	151	180	214	286	313	336	359	470	233	198	1.90
	59	24	43	64	151	161	175	214	241	273	292	340	413	215	191	1.72
	61	25	53	64	96	117	139	166	180	200	214	278	311	163	147	1.61
	57 61	69	35	83	114	145	166	184	210	259	292	334	470	201	175	1.75
SAN DIEGO	57	26	32	54	61	76	81	88	99	107	139	166	241	101	91	1.58
	58	23	45	50	59	64	68	74	83	96	107	197	233	94	84	1.59
	59	26	27	57	62	70	76	90	107	115	127	143	231	98	90	1.57
	60	25	34	51	56	61	64	81	90	100	107	127	166	81	76	1.45
	61	24	45	54	58	61	70	83	94	107	120	180	195	96	87	1.53
	57 61	124	27	52	59	64	73	83	94	105	122	161	241	94	85	1.54
SAN FRANCISCO	57	26	42	45	48	52	57	68	81	90	107	139	211	81	73	1.56
	58	25	22	32	42	54	64	71	76	87	99	180	253	81	67	1.82
	59	26	30	34	38	42	44	59	72	90	107	127	238	78	65	1.79
	60	26	32	36	42	49	52	61	70	76	90	101	183	70	64	1.56
	61	25	20	27	38	45	50	59	76	90	101	151	188	72	61	1.82
	57 61	128	20	34	42	47	53	64	74	86	100	145	253	76	66	1.71
SAN JOSE	57	25	27	32	90	103	110	120	127	141	151	180	221	118	105	1.75
	59	26	23	38	90	99	104	120	137	146	214	254	307	140	117	1.96
	61	26	50	54	64	76	83	96	112	122	137	146	302	108	97	1.55
	57 61	77	23	50	76	91	102	113	124	137	149	203	307	122	106	1.76
STOCKTON	58	26	20	45	70	85	96	114	132	141	161	180	316	124	105	1.86
COLORADO																
DENVER	57	24	15	76	96	107	122	132	141	161	180	214	264	135	121	1.76
	58	25	41	57	64	83	96	110	117	127	151	180	265	111	100	1.58
	59	24	39	54	72	92	99	103	107	161	180	241	274	130	115	1.67
	60	25	54	76	90	103	110	120	127	141	151	197	229	126	118	1.43
	61	25	48	57	64	70	74	90	101	127	151	278	341	115	97	1.74
	57 61	123	15	60	73	90	100	111	125	142	166	214	341	123	110	1.64
CONNECTICUT																
BRIDGEPORT	58	21	46	51	70	80	87	101	127	137	146	180	267	112	101	1.57
	60	24	25	45	54	68	94	103	110	120	127	151	154	95	86	1.62
	58 60	45	25	50	64	76	90	102	113	127	139	161	267	103	93	1.60
HARTFORD	57	26	35	54	80	90	107	116	124	132	146	214	314	125	110	1.68
	58	25	28	45	54	68	72	80	87	107	133	151	207	90	81	1.63
	59	26	40	42	44	64	72	90	97	102	112	122	163	86	80	1.50
	60	26	53	68	76	83	88	97	107	120	166	197	241	114	105	1.51
	61	23	43	45	55	58	60	64	72	81	90	139	156	77	72	1.41
	57 61	126	28	45	59	69	78	88	99	112	131	157	314	99	89	1.59
NEW BRITAIN	59	25	37	57	64	80	83	87	90	112	122	151	247	99	91	1.51
	61	22	43	54	59	68	76	82	87	107	135	151	186	94	87	1.47
	59 61	47	37	55	61	76	81	85	89	110	127	146	247	96	89	1.48

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEW HAVEN	57	23	51	54	60	64	90	100	107	117	127	166	201	100	93	1.50
	58	25	41	54	58	64	67	73	76	101	112	127	175	85	80	1.43
	59	23	42	45	61	67	73	90	107	120	133	151	181	95	87	1.53
	60	25	42	50	59	72	78	85	90	97	102	117	248	88	82	1.45
	61	26	42	54	64	69	73	79	87	99	120	135	198	90	85	1.44
	57 61	122	41	51	59	67	73	83	94	104	120	143	248	91	85	1.47
STAMFORD	57	26	20	45	66	74	83	101	127	139	180	203	247	113	97	1.84
	60	26	32	45	51	64	76	90	99	104	120	151	182	91	83	1.60
	57 60	52	20	42	54	71	82	94	103	119	146	189	247	102	89	1.72
WATERBURY	58	23	34	45	59	68	76	90	96	101	107	180	266	101	88	1.65
	61	23	26	38	45	59	66	72	76	90	114	151	211	84	74	1.67
	58 61	46	26	42	51	64	69	76	90	100	117	161	266	92	81	1.66
DELAWARE WILMINGTON	57	25	77	96	107	122	139	170	189	214	278	340	481	190	170	1.62
	58	23	53	59	114	127	137	151	197	227	254	331	412	185	161	1.75
	60	25	99	133	145	180	214	234	247	266	278	296	403	221	210	1.41
	61	23	79	85	107	120	135	157	168	180	254	302	743	194	163	1.73
	57 61	96	53	95	114	132	148	172	206	239	273	302	743	198	175	1.64
DIST. OF COL. WASHINGTON	58	24	66	72	83	90	97	102	107	133	145	166	177	111	106	1.35
	59	22	38	54	61	69	74	81	90	107	139	214	231	103	91	1.61
	60	22	76	83	92	99	103	107	127	139	214	234	242	135	126	1.45
	61	24	30	38	76	96	110	117	124	151	189	214	268	128	112	1.75
	58 61	92	30	64	75	89	97	104	117	133	157	208	268	119	108	1.56
FLORIDA JACKSONVILLE	58	26	46	52	56	62	76	93	104	117	143	180	220	102	91	1.60
	60	26	23	57	64	82	87	107	122	135	157	168	193	106	97	1.61
	58 60	52	23	52	59	76	86	97	110	127	151	175	220	104	94	1.60
MIAMI	57	25	31	45	48	52	56	61	64	73	80	90	106	63	61	1.34
	59	24	25	34	40	45	52	55	58	62	64	90	134	59	55	1.44
	61	26	33	38	40	43	45	48	52	54	62	76	124	54	52	1.35
	57 61	75	25	38	42	46	50	54	58	62	74	87	134	59	56	1.38
ORLANDO	59	24	41	45	50	52	61	67	73	85	94	107	163	72	68	1.42
	61	21	23	27	50	57	64	81	85	90	97	104	164	76	69	1.59
	59 61	45	23	45	50	56	62	74	81	88	96	105	164	74	69	1.50
ST PETERSBURG	61	25	28	35	39	40	42	43	44	50	54	64	76	46	45	1.26
TAMPA	57	25	34	57	64	69	73	78	82	88	96	117	168	81	77	1.37
	58	26	39	70	76	83	88	95	102	107	122	151	164	99	95	1.37
	59	26	51	64	72	82	87	94	99	103	114	127	173	98	94	1.34
	60	26	48	57	64	73	78	85	93	100	114	127	233	94	89	1.42
	61	26	35	56	60	66	69	73	80	87	101	114	170	80	76	1.38
	57 61	129	34	58	66	72	75	85	91	99	108	126	233	91	86	1.39
GEORGIA ATLANTA	57	26	50	64	80	85	88	97	107	114	124	139	228	106	100	1.39
	58	21	35	64	76	83	90	112	122	139	191	214	268	125	111	1.66
	59	24	34	45	76	85	101	114	127	145	158	180	338	123	109	1.65
	60	23	46	51	76	85	94	107	120	132	141	166	236	112	102	1.54
	61	23	28	50	64	67	71	76	85	96	107	122	194	84	78	1.47
	57 61	117	28	57	70	80	88	99	110	122	140	172	338	109	99	1.56
AUGUSTA	58	25	34	45	51	61	66	74	80	90	127	197	225	93	80	1.70
	61	26	28	33	36	45	57	66	72	76	94	103	142	66	60	1.58
	58 61	51	28	35	43	54	62	69	75	85	103	139	225	79	69	1.57
COLUMBUS	57	26	37	54	64	71	76	96	112	122	139	151	209	102	94	1.54
	60	25	28	38	54	92	96	103	107	122	132	146	160	99	90	1.62
	57 60	51	28	45	64	74	92	101	110	122	135	148	209	101	92	1.57
MACON	58	25	20	45	51	66	71	90	99	127	143	214	336	105	86	1.93
	60	25	22	45	51	64	70	80	87	107	127	254	754	172	87	2.10
	58 60	50	20	42	51	64	71	79	93	107	143	214	754	114	87	2.00

TABLE 2.3—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SAVANNAH	59	23	30	35	45	64	67	73	76	94	103	127	155	78	72	1.54
	61	26	46	55	58	63	66	71	76	83	99	117	192	82	77	1.39
	59 61	49	30	45	57	63	67	72	75	87	101	122	192	80	75	1.46
HAWAII																
HONOLULU	57	25	30	33	34	36	37	40	43	50	59	81	87	47	45	1.36
	58	23	30	32	42	45	50	56	59	62	70	85	123	59	56	1.40
	59	25	38	43	46	51	54	58	60	64	76	99	120	63	60	1.34
	60	26	29	36	39	42	43	46	49	51	54	59	79	47	46	1.23
	61	25	21	26	30	34	36	39	42	47	50	64	117	43	40	1.43
	57 61	124	21	33	37	40	43	47	51	56	62	79	123	52	49	1.40
IDAHO																
BOISE	57	26	48	68	76	87	94	107	117	124	151	189	207	115	107	1.47
	58	25	29	57	64	80	87	101	112	127	139	166	189	101	93	1.56
	59	26	45	64	81	99	110	120	131	139	151	197	435	133	119	1.60
	60	24	73	70	90	101	115	123	132	146	157	174	242	126	120	1.38
	61	26	27	54	61	76	85	99	110	117	127	139	164	96	89	1.55
	57 61	127	27	60	73	85	99	111	120	130	145	171	435	114	105	1.53
ILLINOIS																
CHICAGO	58	21	94	99	107	158	173	194	207	224	244	302	335	190	179	1.43
	59	21	93	157	168	180	191	208	222	238	254	359	714	240	220	1.49
	60	21	88	135	151	157	163	171	177	191	214	270	296	182	176	1.30
	61	26	65	117	127	158	173	194	214	225	243	254	339	190	179	1.44
	58 61	89	65	115	152	164	175	189	203	221	242	281	714	200	187	1.43
EAST ST LOUIS	58	22	32	90	158	180	203	234	270	302	345	427	549	252	219	1.83
	61	23	76	90	119	127	137	151	191	214	241	302	400	178	164	1.52
	58 61	45	32	111	127	147	168	197	222	264	302	359	549	214	189	1.70
PEORIA	58	25	58	76	107	130	136	145	151	214	241	278	294	166	152	1.57
ROCKFORD	59	26	22	54	61	70	76	83	90	107	122	151	366	106	89	1.78
	61	26	36	57	62	69	74	83	93	99	107	127	143	86	82	1.39
	59 61	52	22	54	61	69	76	83	90	101	117	139	366	96	85	1.60
INDIANA																
EAST CHICAGO	57	20	66	127	151	234	262	278	294	331	393	468	978	306	262	1.78
	58	20	73	135	151	180	222	238	254	270	286	302	319	226	214	1.45
	59	23	78	90	127	143	166	194	207	227	254	359	570	206	183	1.62
	60	24	56	76	99	117	143	157	168	191	214	302	420	170	152	1.63
	61	25	67	90	101	120	132	146	156	170	180	214	309	153	143	1.45
	57 61	112	56	90	120	141	159	180	209	250	285	338	978	208	183	1.66
EVANSVILLE	57	25	13	66	70	76	83	93	100	114	127	145	170	98	90	1.63
	60	26	61	90	107	115	120	127	137	144	158	173	252	135	129	1.36
	57 60	51	13	68	78	90	102	114	123	134	144	163	252	117	108	1.56
FORT WAYNE	57	26	70	81	90	107	114	124	135	143	180	203	304	135	126	1.44
	60	26	61	70	76	97	104	111	116	120	125	139	178	112	108	1.31
	57 60	52	61	72	87	101	109	115	121	127	145	180	304	123	117	1.39
GARY	58	26	93	127	151	173	214	254	331	376	427	540	945	307	262	1.77
	60	24	77	107	134	141	151	170	214	254	286	393	525	212	190	1.61
	58 60	50	77	120	138	151	172	221	254	302	382	508	945	261	224	1.73
HAMMOND	59	25	56	76	97	107	117	139	161	191	214	302	381	157	139	1.64
	61	26	58	72	83	107	113	121	133	145	170	214	316	132	121	1.52
	59 61	51	56	70	92	105	114	125	143	166	197	254	381	144	130	1.58
INDIANAPOLIS	57	25	87	107	114	124	131	143	151	166	175	214	260	150	145	1.30
	58	24	98	112	127	137	151	158	166	176	197	254	354	174	165	1.39
	59	21	116	151	157	164	170	180	194	207	234	278	309	193	188	1.26
	60	25	92	115	123	151	170	189	197	210	224	254	275	178	171	1.35
	61	24	90	107	117	124	133	139	145	161	180	241	317	156	149	1.35
	57 61	119	87	112	122	135	148	160	171	186	208	244	354	170	162	1.35
SOUTH BEND	59	24	56	64	81	90	107	139	166	197	214	254	355	153	135	1.67
	61	26	28	48	54	70	80	90	100	107	122	139	164	90	83	1.54
	59 61	50	28	54	67	80	90	101	115	139	173	214	355	120	105	1.70

TABLE 2.3—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TERRE HAUTE	61	26	53	66	71	90	101	117	131	139	151	180	203	118	110	1.48
IOWA																
DAVENPORT	58	20	71	83	94	103	110	117	124	139	180	203	276	133	125	1.43
	61	26	6	54	76	87	92	100	107	127	151	170	237	111	95	2.01
	58 61	46	6	70	83	93	99	107	120	132	158	191	276	120	107	1.79
DES MOINES	57	26	77	90	107	127	155	168	180	191	208	234	458	176	160	1.53
	58	26	83	90	107	119	127	141	158	173	230	246	360	165	152	1.50
	59	25	71	83	90	151	159	172	180	200	214	244	462	174	159	1.55
	60	25	61	76	112	127	155	168	176	254	278	321	329	183	164	1.63
	61	24	59	80	90	95	102	107	120	135	143	180	392	130	119	1.50
	57 61	126	59	84	99	115	130	152	167	180	217	262	462	166	150	1.56
KANSAS																
KANSAS CITY	60	26	28	68	76	96	101	114	131	139	151	180	203	119	110	1.53
TOPEKA	59	24	39	50	61	70	90	94	98	103	107	122	142	88	85	1.37
	61	23	52	68	80	87	93	104	110	116	121	151	158	101	95	1.30
	59 61	47	39	57	69	81	91	97	102	109	118	125	158	95	91	1.35
WICHITA	57	26	41	57	62	72	80	90	111	119	135	151	332	104	93	1.58
	58	22	52	70	81	107	127	137	146	157	174	197	301	137	126	1.53
	59	21	30	42	48	54	68	81	90	127	139	151	230	92	81	1.71
	60	22	22	45	76	83	88	107	115	123	137	146	174	102	94	1.58
	61	24	35	38	64	67	72	75	81	94	103	151	202	85	78	1.50
	57 61	115	22	50	65	73	81	90	110	127	142	167	332	104	93	1.62
KENTUCKY																
LOUISVILLE	61	21	73	90	107	113	118	127	139	151	166	180	319	139	132	1.40
LOUISANA																
BATON ROUGE	57	24	70	76	117	131	143	151	166	197	254	290	316	171	157	1.52
	60	26	57	68	76	87	99	113	121	127	145	180	352	125	113	1.54
	57 60	50	57	71	87	107	118	129	141	157	191	273	352	147	132	1.57
NEW ORLEANS	57	26	52	61	76	83	88	97	107	117	139	180	239	109	101	1.47
	58	25	43	57	62	78	82	88	94	107	115	127	142	91	86	1.41
	59	26	45	54	58	64	69	76	83	88	97	104	125	77	74	1.32
	60	26	62	66	70	76	80	85	90	97	107	115	117	87	85	1.22
	61	26	64	70	76	87	92	99	105	111	123	135	164	101	98	1.28
	57 61	129	43	59	68	76	82	88	95	103	114	126	239	93	89	1.37
SHREVEPORT	59	25	22	45	59	93	99	107	115	127	151	214	302	114	99	1.79
	61	24	47	54	70	78	83	87	90	120	151	191	197	104	96	1.51
	59 61	49	22	51	64	80	88	100	110	122	151	189	302	109	97	1.65
MAINE																
PORTLAND	58	23	44	64	76	85	94	107	127	158	173	227	233	125	113	1.61
	59	21	43	43	50	59	70	90	99	107	117	127	209	90	82	1.55
	60	24	50	49	54	66	72	76	82	90	107	127	147	82	78	1.36
	61	26	33	42	45	64	70	78	85	90	100	107	182	81	75	1.50
	58 61	94	33	45	56	68	76	84	92	104	119	158	233	94	85	1.54
MARYLAND																
BALTIMORE	57	26	77	94	103	113	118	127	141	151	180	241	301	150	141	1.42
	58	25	65	79	84	93	100	112	122	151	166	214	287	127	118	1.46
	59	25	63	85	96	117	133	151	161	175	197	254	343	153	142	1.50
	60	25	48	72	81	94	103	120	151	168	180	278	495	148	127	1.72
	61	26	74	85	96	110	117	127	137	144	161	180	340	142	132	1.44
	57 61	127	48	80	91	103	114	126	141	158	176	239	495	144	132	1.51
MASSACHUSETTS																
BOSTON	57	26	72	82	87	107	115	127	145	166	190	199	214	137	130	1.41
	58	24	72	83	99	107	127	143	161	197	222	246	256	156	145	1.48
	59	26	66	76	83	99	114	133	151	159	172	180	311	138	127	1.51
	60	26	55	76	85	107	115	127	151	170	197	214	252	141	130	1.51
	61	24	60	81	94	103	115	123	133	151	166	197	286	133	125	1.43
	57 61	126	55	79	89	105	117	130	147	165	187	214	311	141	131	1.47

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
BROCKTON	58	24	23	40	50	57	64	76	83	107	135	166	301	93	79	1.78
	59	22	29	32	50	61	68	76	83	90	107	139	284	86	74	1.69
	60	25	30	48	54	59	62	72	80	90	101	127	165	79	73	1.49
	61	26	29	50	54	62	66	70	75	81	96	107	173	78	72	1.46
	58 61	97	23	45	52	59	65	72	80	85	105	141	301	83	74	1.60
CAMBRIDGE	59	25	40	45	64	76	81	88	94	107	127	180	196	97	89	1.54
	60	26	45	57	62	72	79	87	99	107	119	127	222	95	89	1.45
	61	24	38	45	56	60	68	76	99	120	135	166	217	96	86	1.60
	59 61	75	38	51	59	68	77	87	97	111	125	151	222	96	88	1.52
FALL RIVER	58	23	21	48	57	62	67	76	90	107	166	254	326	114	91	1.97
	60	23	18	32	68	76	82	90	101	114	127	180	254	102	89	1.76
	61	21	44	54	59	64	81	94	103	117	133	145	190	95	88	1.46
	58 61	67	18	52	59	67	77	87	98	114	139	180	326	104	89	1.73
LAWRENCE	57	26	21	35	42	54	58	64	76	93	104	135	186	75	66	1.68
	60	25	24	32	38	43	47	54	64	81	90	107	118	63	57	1.59
	61	23	24	27	45	64	69	76	85	99	112	127	146	78	70	1.66
	57 61	74	21	32	40	48	58	66	75	90	102	124	186	72	64	1.65
LOWELL	59	22	16	27	30	38	51	59	70	81	107	127	163	68	58	1.81
	61	21	15	27	32	38	54	64	81	90	101	127	169	71	59	1.88
	59 61	43	15	27	32	38	52	62	76	85	99	127	169	69	59	1.83
LYNN	57	21	43	45	64	76	82	90	112	122	161	180	253	108	97	1.61
	60	26	29	38	41	45	49	54	62	68	81	90	131	62	57	1.47
	61	26	29	54	58	64	69	76	87	96	114	127	309	90	80	1.60
	57 61	73	29	41	49	57	64	74	82	90	110	151	309	85	75	1.63
NEW BEDFORD	59	25	24	30	38	42	44	50	54	58	61	76	97	51	49	1.40
	60	26	12	25	35	40	42	45	50	52	64	72	115	49	44	1.59
	61	25	26	46	48	52	54	59	62	69	74	85	108	60	58	1.32
	59 61	76	12	30	39	43	47	51	55	60	67	76	115	53	50	1.46
QUINCY	58	25	31	42	47	54	61	72	83	101	112	127	224	82	73	1.64
	59	23	24	38	54	64	78	85	90	110	117	127	175	97	79	1.63
	60	23	32	45	54	80	84	90	99	107	117	151	201	95	88	1.54
	61	23	35	42	57	62	67	76	85	96	107	122	276	88	79	1.55
	58 61	94	24	41	51	61	75	82	89	104	115	126	276	88	79	1.59
SOMERVILLE	57	25	37	45	51	61	70	85	93	104	117	166	191	90	82	1.57
	60	25	29	38	47	54	57	62	67	76	90	120	165	71	64	1.54
	61	25	39	45	48	52	55	60	63	69	74	90	119	62	60	1.29
	57 61	75	29	43	48	54	58	63	71	82	97	120	191	74	68	1.50
SPRINGFIELD	58	26	20	35	45	50	52	61	72	79	87	99	212	71	62	1.67
	59	23	17	32	43	54	64	80	87	99	117	197	345	96	76	1.98
	60	21	24	25	27	54	58	64	76	85	107	151	182	77	65	1.84
	61	25	38	45	51	58	62	72	81	93	100	117	214	78	72	1.50
	58 61	95	17	35	45	53	59	68	78	87	100	139	345	80	68	1.74
WORCESTER	57	26	34	42	64	76	94	107	122	132	146	161	219	108	97	1.65
	59	25	55	62	76	92	97	105	114	133	145	214	449	125	110	1.60
	60	26	32	45	54	73	80	90	99	104	127	180	229	99	88	1.67
	61	26	34	51	57	67	73	83	99	117	139	151	174	96	88	1.55
	57 61	103	32	49	64	74	86	97	106	123	141	169	449	107	95	1.62
MICHIGAN																
DEARBORN	59	26	53	65	68	72	75	107	122	139	163	174	235	114	104	1.54
	61	22	70	72	83	107	117	127	143	161	214	254	354	146	131	1.58
	59 61	48	53	67	72	76	101	117	132	155	169	214	354	129	116	1.57
DETROIT	57	23	48	90	103	112	122	139	151	170	197	254	303	148	136	1.53
	58	25	54	83	99	112	117	125	135	166	197	234	246	139	129	1.49
	59	26	79	93	100	117	133	151	180	227	266	290	358	177	160	1.58
	60	26	59	94	103	120	135	154	164	170	180	197	235	146	140	1.39
	61	26	60	68	76	90	99	111	123	135	158	173	220	118	110	1.46
	57 61	126	48	81	96	108	119	133	151	168	195	237	358	146	134	1.51

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
FLINT	57	26	70	85	96	110	116	124	139	151	168	180	235	134	129	1.35
	59	26	49	64	76	84	90	100	117	135	161	180	468	124	109	1.61
	57 59	52	49	72	83	94	105	116	127	144	166	189	468	129	118	1.49
JACKSON	58	24	11	29	38	57	66	71	76	87	93	104	128	68	61	1.71
	61	26	39	51	56	62	66	74	82	87	97	104	124	77	74	1.33
	58 61	50	11	38	54	60	66	72	79	87	95	104	128	73	67	1.54
KALAMAZOO	57	24	37	40	45	51	61	70	83	97	104	127	181	80	73	1.55
	60	25	30	54	61	72	78	85	90	127	151	173	258	102	90	1.63
	57 60	49	30	43	52	61	71	81	88	100	120	163	258	91	81	1.60
LANSING	57	24	34	48	59	68	80	87	96	111	119	151	152	91	85	1.47
	60	25	34	38	45	60	64	73	78	84	88	127	160	76	70	1.51
	57 60	49	34	42	55	63	71	79	84	90	113	127	160	83	77	1.50
SAGINAW	58	26	44	64	70	80	87	101	113	118	127	151	186	101	95	1.43
	60	26	42	54	64	76	82	90	100	107	141	151	202	101	93	1.52
	58 60	52	42	54	67	78	85	94	10[illegible]	118	137	158	202	101	94	1.47
MINNESOTA DULUTH	57	25	25	54	70	82	87	117	132	146	166	234	401	126	107	1.81
	59	26	19	27	35	47	50	57	67	73	83	90	142	61	55	1.63
	61	26	28	36	42	61	67	76	83	88	101	117	135	74	68	1.56
	57 61	77	19	34	46	57	68	77	83	93	122	145	401	87	73	1.78
MINNEAPOLIS	57	25	42	54	76	90	97	107	120	143	161	214	722	146	113	1.89
	58	26	39	48	54	72	80	90	132	141	166	234	335	122	103	1.80
	59	26	45	49	52	70	83	97	107	133	151	197	375	118	100	1.76
	60	26	43	50	70	80	84	90	107	114	124	135	231	100	93	1.49
	61	26	24	38	45	54	64	71	83	93	104	114	220	78	70	1.64
	57 61	129	24	46	54	71	82	93	103	120	140	180	722	112	94	1.75
ST PAUL	58	24	57	61	70	76	90	101	114	133	145	214	265	119	107	1.56
	60	25	52	61	70	90	97	107	112	120	125	151	155	102	98	1.37
	61	26	40	57	62	76	85	96	104	112	127	143	161	96	91	1.43
	58 61	75	40	59	67	80	91	101	110	120	132	157	265	105	98	1.46
MISSISSIPPI JACKSON	57	24	15	19	48	54	62	68	76	84	90	139	198	76	66	1.79
	58	24	39	46	51	54	76	81	85	107	135	166	199	92	83	1.59
	59	26	32	42	48	57	62	69	76	83	96	107	229	77	70	1.56
	60	24	27	38	54	64	69	72	75	85	94	107	124	74	70	1.43
	61	20	26	27	42	64	70	76	90	107	139	180	279	98	81	1.92
	57 61	118	15	40	50	57	66	73	80	89	105	142	279	83	73	1.65
MISSOURI KANSAS CITY	57	26	70	107	131	143	151	166	180	191	208	234	436	174	163	1.44
	58	24	55	107	132	141	161	180	197	224	244	331	345	193	179	1.53
	59	22	70	72	81	96	107	115	123	139	163	174	278	124	117	1.42
	60	26	70	95	100	107	127	134	141	146	180	203	343	142	134	1.40
	61	24	56	70	83	90	111	119	127	151	166	197	300	129	118	1.51
	57 61	122	55	81	99	115	130	141	153	171	196	237	436	153	141	1.50
ST LOUIS	57	25	95	117	132	146	166	190	199	214	230	254	332	183	174	1.39
	58	24	89	107	122	135	155	163	172	189	206	302	324	175	165	1.42
	59	24	27	45	117	151	189	206	224	254	302	393	658	217	179	2.01
	60	26	63	90	101	133	145	170	191	203	227	254	295	168	156	1.49
	61	26	67	81	90	103	117	139	155	163	176	214	287	141	132	1.46
	57 61	125	27	90	111	133	150	168	185	205	232	283	658	176	160	1.58
MONTANA HELENA	57	25	17	27	32	45	61	85	107	122	139	214	466	109	75	2.41
	58	26	18	26	30	43	50	64	76	90	107	139	377	81	63	2.01
	59	25	12	21	24	28	31	54	64	71	76	96	101	51	43	1.91
	60	26	11	19	27	35	40	50	59	64	83	96	141	55	46	1.87
	61	25	13	30	33	37	45	52	64	76	85	117	168	62	53	1.78
	57 61	127	11	24	29	35	46	57	68	81	98	124	466	72	55	2.04
NEBRASKA LINCOLN	57	26	65	76	90	103	114	130	141	148	180	203	248	133	125	1.44
	60	25	22	38	64	70	74	82	87	101	127	145	220	90	81	1.63
	57 60	51	22	64	71	78	88	102	122	136	147	191	248	112	101	1.61

TABLE 2.3—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OMAHA	57	26	77	90	94	101	105	114	124	133	151	170	194	122	119	1.29
	58	22	45	70	79	87	96	107	115	123	143	166	230	111	105	1.43
	59	23	18	76	107	111	116	123	127	151	180	278	823	167	133	1.96
	60	26	39	45	67	76	85	107	122	133	151	170	198	107	97	1.60
	61	26	19	50	57	70	81	93	104	111	123	139	182	95	86	1.63
	57 61	123	18	62	79	89	100	110	119	127	146	177	823	120	106	1.62
NEVADA																
LAS VEGAS	57	25	54	115	123	134	141	151	163	180	203	241	468	166	153	1.47
	58	22	70	76	107	119	127	135	143	151	214	302	639	173	149	1.66
	60	21	50	76	96	107	117	132	141	151	191	214	389	145	131	1.57
	61	23	76	90	114	127	134	144	151	180	214	302	428	170	155	1.52
	57 61	91	50	90	111	121	131	140	149	174	204	248	639	164	147	1.55
NEW HAMPSHIRE																
MANCHESTER	58	20	25	32	43	50	59	68	76	83	90	107	134	68	63	1.55
	59	20	26	30	34	37	42	48	54	64	76	90	223	61	53	1.66
	60	21	32	32	42	48	54	62	66	71	76	107	156	66	61	1.52
	61	21	29	32	47	50	54	59	62	68	76	99	117	63	59	1.42
	58 61	82	25	31	40	47	53	58	64	71	83	101	223	65	59	1.53
NEW JERSEY																
ATLANTIC CITY	58	25	33	47	50	57	62	68	72	80	87	117	136	71	67	1.40
	61	26	25	45	51	57	61	67	76	82	90	99	118	71	67	1.45
	58 61	51	25	45	51	56	61	68	74	81	88	104	136	71	67	1.42
CAMDEN	57	26	54	127	139	158	173	203	234	254	283	302	352	210	195	1.52
	60	25	84	90	112	127	135	147	155	166	173	191	205	143	139	1.29
	57 60	51	54	99	123	137	149	163	175	197	234	283	352	177	165	1.47
EAST ORANGE	57	20	26	30	35	50	76	127	151	163	174	214	366	121	92	2.24
	60	20	20	23	27	38	64	72	83	99	127	151	213	82	66	2.01
	57 60	40	20	26	34	45	67	81	107	139	161	180	366	102	78	2.14
ELIZABETH	58	23	56	64	97	104	112	127	139	151	166	254	278	136	125	1.51
	60	24	19	54	90	107	117	124	131	143	151	180	247	127	115	1.67
	58 60	47	19	70	92	105	115	125	134	146	163	180	278	131	120	1.59
JERSEY CITY	57	26	99	112	122	134	141	151	166	175	203	254	311	167	160	1.35
	59	26	75	117	132	146	157	174	187	194	204	211	229	170	164	1.32
	61	24	63	76	107	115	127	151	159	172	180	214	253	147	139	1.43
	57 61	76	63	104	118	132	144	157	170	182	199	214	311	162	154	1.37
NEWARK	58	22	33	45	56	62	70	81	90	117	143	180	231	98	87	1.66
	59	24	47	49	54	76	93	99	104	139	161	197	278	113	100	1.66
	60	25	42	54	72	83	90	112	122	143	157	174	232	113	103	1.55
	61	25	39	51	67	76	85	97	104	127	139	180	427	113	99	1.66
	58 61	96	33	50	62	74	84	96	109	129	149	174	427	110	97	1.63
NEW MEXICO																
ALBUQUERQUE	57	22	114	120	135	161	180	190	199	209	270	302	375	201	192	1.37
	58	24	52	64	107	120	163	174	189	214	241	302	360	177	160	1.63
	59	25	40	90	127	151	166	187	200	254	321	393	1706	256	190	2.00
	60	26	61	117	151	180	197	222	246	270	331	393	646	244	215	1.68
	61	22	63	76	90	117	127	151	191	214	254	331	429	184	160	1.73
	57 61	119	40	93	119	146	169	189	205	232	278	346	1706	214	183	1.71
NEW YORK																
ALBANY	60	25	23	27	36	43	48	59	70	83	90	114	121	65	58	1.65
	61	23	29	32	40	45	54	62	68	76	94	107	136	66	60	1.56
	60 61	48	23	32	38	43	50	59	69	82	93	107	136	65	59	1.60
BINGHAMTON	57	26	54	59	66	72	76	87	99	107	119	127	224	95	89	1.42
	59	25	47	49	51	70	80	90	96	104	114	135	141	87	82	1.43
	60	24	34	66	71	74	85	93	100	127	135	147	188	99	93	1.45
	61	26	36	42	45	52	59	70	79	84	107	127	170	79	71	1.57
	57 61	101	34	48	57	68	75	84	93	104	120	139	224	90	83	1.48
BUFFALO	59	24	38	70	83	90	99	104	111	123	139	197	243	115	107	1.50
	60	26	41	55	58	63	68	94	107	117	151	170	283	105	93	1.63
	61	23	42	54	83	96	107	127	139	151	163	180	198	123	113	1.56
	59 61	73	38	56	66	83	95	106	117	130	154	180	283	114	103	1.57

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	Std Geo Dev
				10	20	30	40	50	60	70	80	90				
ELMIRA	59	25	17	54	64	70	74	93	99	107	120	151	182	92	82	1.70
	60	26	19	43	50	59	64	76	87	94	107	127	227	83	74	1.64
	61	25	24	46	50	54	57	61	64	80	87	101	118	66	63	1.40
	59 61	76	17	45	52	59	64	73	84	94	104	124	227	80	72	1.60
GLEN COVE	59	22	30	45	64	76	82	87	107	127	180	214	268	116	99	1.78
	60	22	22	27	45	54	61	68	76	99	151	214	327	102	78	2.08
	61	25	26	54	67	76	90	100	107	151	189	214	305	120	102	1.80
	59 61	69	22	43	57	68	76	88	101	127	173	209	327	113	93	1.89
MASSENA	59	20	26	32	40	43	48	54	64	83	94	103	129	66	59	1.59
	60	25	21	27	30	34	38	45	51	61	67	76	114	49	44	1.57
	61	25	17	23	29	38	40	42	44	49	52	61	85	42	39	1.45
	59 61	70	17	26	31	38	41	45	50	57	66	87	129	51	46	1.58
MT VERNON	61	25	41	45	64	73	90	110	117	127	151	180	230	107	96	1.62
NEW ROCHELLE	59	24	36	50	58	62	81	90	101	127	191	254	518	127	101	1.92
	60	26	46	50	54	64	90	107	132	141	161	180	520	127	106	1.78
	61	23	38	54	76	90	96	104	117	135	151	214	311	123	108	1.66
	59 61	73	36	51	59	72	90	101	117	138	163	214	520	126	105	1.78
NEW YORK	57	25	94	107	139	157	168	189	206	234	254	321	330	198	186	1.44
	58	25	79	101	112	127	139	156	166	180	214	254	389	167	155	1.46
	59	26	73	107	127	145	156	170	197	234	302	359	532	211	187	1.64
	60	25	79	87	99	134	141	151	180	206	222	246	270	162	151	1.46
	61	26	106	117	127	139	147	163	180	194	214	241	262	173	167	1.31
	57 61	127	73	100	123	138	150	166	180	206	235	281	532	182	169	1.48
NIAGARA FALLS	59	23	62	76	99	117	132	146	161	180	203	302	429	164	146	1.61
ROCHESTER	58	26	52	78	81	87	90	107	119	127	145	166	232	113	107	1.42
	59	23	53	64	76	90	101	120	135	151	180	214	313	131	118	1.59
	60	26	72	83	90	127	134	144	158	173	203	227	273	152	142	1.46
	61	26	64	69	74	85	94	107	117	124	143	166	272	115	107	1.44
	58 61	101	52	71	81	89	103	118	131	145	168	206	313	128	118	1.49
SCHENECTADY	57	22	38	45	51	61	68	76	83	90	103	117	143	77	73	1.42
	59	24	37	40	45	50	57	64	72	82	87	107	207	73	67	1.50
	60	23	20	23	42	45	54	57	60	62	64	99	115	57	53	1.51
	57 60	69	20	40	45	52	57	62	69	79	90	105	207	69	64	1.51
SYRACUSE	57	26	40	45	68	81	90	103	127	137	151	197	347	119	104	1.70
	59	26	35	66	69	74	107	127	151	161	175	197	312	131	115	1.69
	60	25	45	66	71	90	107	135	151	166	175	214	286	132	119	1.60
	61	26	52	70	90	97	102	117	139	151	189	206	258	134	123	1.53
	57 61	103	35	64	72	87	101	120	138	155	174	207	347	129	115	1.63
TROY	59	24	33	36	59	66	74	78	81	85	88	107	116	76	72	1.42
	60	21	31	45	54	58	62	76	81	85	90	99	101	72	69	1.36
	61	23	35	36	48	54	64	76	85	99	114	151	245	88	77	1.68
	59 61	68	31	38	52	60	68	76	81	87	94	111	245	79	73	1.49
UTICA	57	24	44	59	69	74	101	114	127	157	168	197	228	121	109	1.60
	59	26	35	57	62	76	96	104	120	139	180	234	373	129	109	1.80
	60	25	35	43	50	61	68	78	83	90	114	151	223	85	77	1.57
	61	24	27	42	56	60	70	79	84	94	103	139	162	82	76	1.52
	57 61	99	27	47	59	67	77	90	101	117	144	177	373	105	91	1.67
NORTH CAROLINA																
ASHEVILLE	58	25	45	47	52	66	71	81	90	112	122	180	212	94	84	1.59
	60	26	52	68	76	84	90	107	122	131	143	151	222	110	104	1.43
	58 60	51	45	50	66	73	81	93	110	122	137	166	222	102	94	1.52
CHARLOTTE	57	25	45	68	76	90	107	127	135	147	158	180	322	126	114	1.55
	58	25	43	64	72	83	90	107	120	151	180	234	308	124	110	1.65
	59	26	49	59	70	80	84	90	117	127	145	180	326	117	104	1.61
	60	26	62	76	85	99	107	116	124	139	170	191	234	124	117	1.40
	61	26	48	76	81	88	96	117	166	189	214	241	365	148	129	1.72
	57 61	128	43	65	78	85	97	112	126	146	173	218	365	128	114	1.59

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GREENSBORO	58	22	34	42	54	67	73	79	84	90	117	139	156	83	77	1.50
	61	26	28	36	45	50	54	59	63	67	76	83	94	60	57	1.37
	58 61	48	28	38	48	54	60	66	73	81	87	107	156	71	66	1.47
RALEIGH	59	25	37	42	46	51	54	62	68	90	96	104	156	70	65	1.43
	61	24	39	50	58	62	69	74	81	93	100	127	132	80	76	1.35
	59 61	49	37	45	51	56	62	69	75	90	98	105	156	75	71	1.40
WINSTON SALEM	57	26	28	56	60	70	81	92	100	105	127	151	228	98	89	1.59
	60	25	72	81	90	100	107	127	143	170	197	278	306	147	134	1.53
	57 60	51	28	60	73	85	94	103	115	137	166	214	306	122	108	1.63
NORTH DAKOTA																
BISMARCK	57	24	51	54	69	74	96	107	120	135	143	180	220	110	101	1.51
	58	26	22	32	48	57	64	80	90	101	120	139	324	94	78	1.96
	59	25	18	23	38	64	69	76	81	88	111	123	221	77	65	1.86
	60	26	24	42	50	61	70	101	120	151	166	175	187	103	87	1.85
	61	25	19	43	48	59	68	79	84	94	103	139	216	83	74	1.64
	57 61	126	18	40	51	63	72	82	95	111	129	159	324	93	80	1.77
OHIO																
AKRON	58	26	44	83	92	97	100	105	120	135	166	214	431	143	125	1.64
	60	24	55	59	90	133	151	161	170	197	224	254	294	162	145	1.67
	61	26	41	64	80	90	101	127	141	151	173	189	210	126	116	1.55
	58 61	76	41	64	86	98	107	131	147	163	185	224	431	143	128	1.63
CANTON	57	26	70	112	122	137	146	180	206	224	254	278	304	183	171	1.47
	59	26	119	130	137	148	157	174	194	207	234	254	317	183	176	1.33
	61	26	81	111	119	135	151	168	186	197	214	241	323	175	166	1.41
	57 61	78	70	114	129	140	153	173	191	209	232	268	323	180	171	1.40
CINCINNATI	57	25	72	83	90	107	117	132	141	157	168	197	237	133	127	1.36
	58	22	89	94	103	115	123	130	137	144	180	214	319	145	137	1.39
	59	26	42	83	93	104	111	123	151	166	189	206	336	143	131	1.54
	60	24	63	64	107	117	130	136	142	151	180	214	316	145	136	1.45
	61	25	58	70	81	96	107	117	124	139	151	173	189	116	110	1.39
	57 61	122	42	80	94	107	117	127	138	149	171	200	336	136	128	1.44
CLEVELAND	57	26	87	107	120	143	157	174	197	214	254	278	314	185	174	1.43
	58	25	69	90	114	124	139	166	180	206	224	254	279	165	155	1.44
	59	25	70	83	111	123	151	166	175	203	227	359	445	179	159	1.63
	60	26	86	97	104	117	127	180	197	208	234	254	336	174	162	1.49
	61	24	56	64	83	110	120	127	139	166	189	214	246	136	126	1.50
	57 61	126	56	87	110	120	137	161	180	199	224	254	445	168	155	1.51
COLUMBUS	57	26	77	120	133	151	161	175	197	214	231	243	310	182	174	1.37
	58	26	78	111	119	130	135	143	151	166	197	224	241	154	148	1.33
	59	24	40	76	94	103	120	132	141	161	180	214	272	138	127	1.52
	60	25	74	83	90	103	110	117	122	133	145	170	190	119	115	1.28
	61	26	37	54	64	79	84	94	107	115	127	143	374	105	94	1.59
	57 61	127	37	79	91	109	120	131	142	158	180	221	374	140	129	1.51
DAYTON	58	23	60	70	82	87	94	107	113	118	124	139	150	104	101	1.27
	59	25	41	70	83	97	104	120	133	151	170	214	239	126	116	1.54
	60	26	50	68	76	94	103	127	141	151	166	175	327	132	120	1.56
	61	24	42	54	90	99	112	122	132	146	180	206	215	125	115	1.56
	58 61	98	41	68	82	93	103	115	127	140	154	186	327	122	113	1.49
HAMILTON	59	26	75	96	101	111	119	135	161	180	200	214	265	147	139	1.41
	61	26	42	45	54	66	70	76	87	99	120	151	163	86	80	1.48
	59 61	52	42	54	69	83	96	107	120	139	170	200	265	117	106	1.58
LORAIN	57	26	55	72	83	110	116	124	143	166	234	278	398	157	137	1.68
	60	26	37	57	64	90	101	120	151	187	207	234	417	144	121	1.85
	57 60	52	37	62	79	99	113	123	141	180	214	270	417	151	129	1.76
SPRINGFIELD	58	24	49	54	85	99	115	123	132	146	166	214	264	130	120	1.52
	60	26	39	57	64	90	101	113	121	127	141	151	255	111	102	1.55
	58 60	50	39	57	76	93	109	117	125	137	149	180	264	120	110	1.54

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TOLEDO	57	26	48	64	70	81	90	107	133	145	166	180	311	124	110	1.63
	59	24	52	56	62	70	83	90	115	127	143	170	193	104	97	1.50
	57 59	50	48	58	66	76	86	107	121	137	155	176	311	115	104	1.57
YOUNGSTOWN	57	26	63	76	96	127	137	151	197	214	254	302	406	180	160	1.66
	58	26	79	87	112	127	135	147	159	168	180	214	391	158	147	1.44
	59	26	65	90	99	110	116	124	143	158	180	203	277	138	130	1.42
	60	26	58	64	85	101	112	127	145	166	214	241	371	148	132	1.63
	61	26	60	70	81	93	100	117	139	151	227	254	298	142	126	1.62
	57 61	130	58	77	92	107	121	136	150	174	208	254	406	153	138	1.56
OKLAHOMA																
OKLAHOMA CITY	58	25	38	54	61	66	68	71	73	76	82	90	98	71	69	1.25
	60	23	42	50	66	71	76	82	86	90	99	117	173	84	80	1.36
	61	25	45	61	70	81	85	92	95	99	102	107	128	88	86	1.28
	58 61	73	38	54	65	69	73	79	85	90	97	105	173	81	78	1.31
TULSA	57	20	22	42	47	50	54	72	83	99	127	143	268	87	75	1.75
	59	21	38	40	45	59	68	78	82	86	90	117	146	76	71	1.44
	61	23	20	23	43	48	54	62	66	69	73	90	114	6[illegible]	56	1.53
	57 61	64	20	40	45	51	61	68	73	82	90	123	268	74	66	1.59
OREGON																
EUGENE	61	22	23	38	45	59	70	80	87	99	139	161	158	87	77	1.71
MEDFORD	61	22	45	50	64	84	90	107	117	127	180	227	249	123	109	1.66
PORTLAND	57	26	32	38	45	59	67	76	107	120	139	151	315	99	82	1.83
	58	25	26	27	38	61	90	96	99	105	139	180	334	99	81	1.94
	59	26	21	42	50	61	67	76	84	90	127	180	208	91	78	1.76
	60	24	21	30	43	50	57	60	63	76	99	127	185	70	62	1.68
	61	26	30	38	50	57	61	68	96	107	122	151	186	87	76	1.66
	57 61	127	21	35	46	56	63	73	90	103	125	163	334	89	76	1.78
PENNSYLVANIA																
ALLENTOWN	59	26	42	54	72	83	90	107	133	145	170	214	298	122	108	1.66
	61	25	60	90	97	107	117	132	141	157	168	234	261	135	127	1.43
	59 61	51	42	67	82	94	105	124	138	151	169	224	298	129	117	1.56
BETHLEHEM	61	25	84	101	110	118	124	139	151	168	180	214	254	146	141	1.33
ERIE	61	22	41	59	76	90	96	101	107	117	158	173	197	108	101	1.47
HARRISBURG	58	25	46	54	64	87	94	107	139	191	214	244	292	135	117	1.75
	60	25	50	54	64	78	83	90	95	102	107	143	189	92	87	1.39
	58 60	50	46	52	64	80	87	95	102	127	151	214	292	113	101	1.62
JOHNSTOWN	59	22	65	94	103	115	123	151	180	254	302	359	424	198	172	1.71
	61	22	70	90	99	114	127	143	157	168	191	214	452	166	148	1.59
	59 61	44	65	92	103	112	125	145	163	191	254	359	452	182	160	1.65
PHILADELPHIA	57	24	86	132	146	161	189	206	221	241	254	290	323	205	196	1.38
	58	23	61	90	117	127	151	166	175	189	206	302	349	170	157	1.52
	59	25	54	76	90	127	156	170	180	222	238	302	411	179	159	1.66
	60	25	70	90	107	119	127	145	166	197	214	254	342	160	147	1.52
	61	26	86	110	115	122	127	141	180	194	214	302	345	173	160	1.47
	57 61	123	54	90	116	128	145	166	185	207	234	288	411	177	163	1.52
PITTSBURGH	57	23	78	85	101	127	156	170	180	203	234	427	534	203	176	1.72
	58	26	85	96	107	127	133	142	151	170	214	278	344	167	155	1.48
	59	24	83	99	127	139	158	173	214	376	410	604	977	276	218	1.96
	60	24	43	76	84	90	120	139	166	203	227	302	475	166	143	1.74
	61	26	61	68	76	100	107	133	151	161	175	214	297	137	126	1.53
	57 61	123	43	82	99	116	135	151	168	190	236	359	977	189	160	1.73
READING	58	25	56	76	83	93	100	117	139	170	191	278	404	142	125	1.63
	60	25	34	64	76	90	99	110	117	127	170	203	242	120	108	1.60
	58 60	50	34	67	80	90	99	110	122	156	180	208	404	131	117	1.62

TABLE 2.3—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SCRANTON	57	26	62	76	85	101	112	127	166	197	278	302	466	177	149	1.79
	59	26	49	54	72	85	107	158	180	214	254	278	338	159	135	1.85
	61	26	75	107	120	151	163	180	197	208	331	393	537	215	189	1.65
	57 61	78	49	72	90	109	127	162	183	211	266	331	537	184	156	1.79
WILKES BARRE	58	26	23	54	61	72	80	90	114	120	135	151	203	99	93	1.62
	60	25	39	45	64	84	90	103	117	143	197	241	260	121	104	1.74
	58 60	51	23	48	62	78	85	100	115	127	147	203	260	110	97	1.68
YORK	59	25	60	81	90	107	117	135	151	173	189	214	301	142	131	1.50
	61	26	28	64	76	87	99	117	135	151	214	302	408	147	121	1.88
	59 61	51	28	68	82	93	110	125	143	168	197	270	408	144	126	1.70
PUERTO RICO																
SAN JUAN	57	21	45	47	50	54	61	69	74	80	87	107	132	73	70	1.34
	59	24	54	57	64	68	74	78	83	90	101	117	121	81	79	1.26
	60	23	53	56	61	64	69	76	81	85	90	117	179	80	76	1.33
	61	24	52	51	57	61	67	73	78	85	90	151	209	84	78	1.42
	57 61	92	45	52	58	63	68	74	79	85	94	116	209	80	76	1.34
RHODE ISLAND																
PROVIDENCE	57	23	73	79	87	93	99	107	120	132	141	180	253	117	112	1.37
	58	26	53	76	85	97	104	120	139	151	180	214	294	136	124	1.53
	59	26	43	54	61	70	76	87	99	107	151	170	192	98	90	1.53
	60	26	56	67	73	83	90	103	120	151	173	191	223	119	109	1.52
	61	25	33	50	56	61	64	73	81	99	112	127	136	80	74	1.47
	57 61	126	33	59	69	79	88	98	110	126	149	180	294	110	100	1.54
SOUTH CAROLINA																
CHARLESTON	59	23	37	36	40	43	45	59	64	70	76	107	119	63	59	1.47
	61	26	35	47	49	51	53	61	72	83	101	127	233	78	70	1.59
	59 61	49	35	39	45	49	53	60	66	74	93	114	233	71	64	1.54
COLUMBIA	57	24	55	76	[illegible]	88	95	100	105	137	146	170	209	112	106	1.39
	58	24	42	59	83	92	100	105	111	123	151	180	263	117	108	1.51
	60	23	55	70	90	95	100	107	113	118	124	143	274	112	107	1.36
	61	24	11	32	68	76	83	88	99	113	116	127	186	93	83	1.75
	57 61	95	11	66	79	87	94	102	109	120	132	161	274	108	100	1.53
GREENVILLE	57	26	55	60	64	80	87	97	107	127	158	173	285	111	101	1.53
	60	25	39	59	68	81	90	107	127	151	180	241	285	125	110	1.69
	57 60	51	39	58	66	78	88	101	117	141	166	214	285	118	105	1.61
SOUTH DAKOTA																
SIOUX FALLS	57	26	51	54	59	68	76	81	87	90	114	127	169	88	83	1.40
	58	25	38	67	73	93	99	107	115	127	151	197	268	116	106	1.56
	59	26	27	27	54	62	68	83	101	117	180	203	268	102	83	1.96
	60	22	25	32	50	64	72	80	87	127	166	214	358	108	87	1.95
	61	26	20	30	40	45	51	59	68	76	84	90	161	63	57	1.59
	57 61	125	20	41	53	63	72	81	89	106	127	176	358	95	81	1.75
TENNESSEE																
CHATTANOOGA	58	24	90	99	158	173	191	203	214	270	302	540	532	246	215	1.67
	59	26	102	133	145	158	166	176	203	224	254	286	379	198	188	1.38
	60	25	69	99	117	143	161	187	200	234	264	292	361	186	171	1.54
	61	26	57	114	127	145	166	214	231	243	278	331	426	209	190	1.59
	58 61	101	57	107	134	154	171	193	214	241	272	340	532	209	190	1.55
KNOXVILLE	57	26	68	81	90	110	116	124	143	157	174	224	245	136	127	1.45
	59	25	59	76	83	96	107	116	121	132	141	180	306	122	113	1.46
	61	24	28	59	81	90	100	107	127	170	197	254	302	135	117	1.75
	57 61	75	28	74	84	97	108	118	127	148	170	231	306	131	119	1.55
MEMPHIS	58	26	59	69	74	80	83	88	95	100	107	135	154	94	92	1.27
	60	25	46	61	68	78	83	90	101	120	135	166	201	102	95	1.45
	61	25	45	45	64	79	84	99	110	118	124	151	234	102	93	1.55
	58 61	76	45	60	70	78	83	89	100	111	125	145	234	99	93	1.42

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NASHVILLE	57	26	71	52	87	99	107	122	137	146	166	180	317	134	125	1.45
	58	26	48	90	99	112	122	151	173	197	302	340	415	179	155	1.73
	59	26	47	70	76	107	114	124	139	151	200	214	456	147	128	1.68
	60	26	45	76	85	99	107	122	137	146	170	197	310	130	119	1.53
	61	25	62	78	83	90	97	107	120	135	143	166	203	113	109	1.33
	57 61	129	45	76	87	99	111	123	136	150	178	234	456	141	127	1.57
TEXAS																
AUSTIN	58	26	16	57	62	67	70	75	107	117	133	145	181	94	85	1.65
	61	26	10	48	54	59	62	72	85	94	107	120	157	78	70	1.68
	58 61	52	10	50	57	63	68	74	87	104	121	141	181	86	77	1.67
BEAUMONT	59	22	23	35	42	51	57	64	80	87	97	104	115	69	63	1.55
	61	25	32	43	56	62	66	72	76	90	97	107	190	76	71	1.46
	59 61	47	23	39	45	57	63	71	78	88	97	104	190	73	67	1.50
CORPUS CHRISTI	57	26	35	40	45	54	57	62	69	74	83	90	173	69	64	1.44
	60	26	28	43	46	50	53	58	64	72	83	90	116	64	60	1.40
	61	25	29	41	44	50	54	59	62	70	76	107	236	68	62	1.53
	57 61	77	28	41	45	50	55	60	64	72	82	99	236	67	62	1.45
DALLAS	57	25	18	45	70	94	103	115	123	158	173	214	243	120	104	1.83
	58	22	64	66	71	83	96	107	127	139	158	173	210	114	107	1.43
	60	22	22	38	64	78	83	88	94	103	120	166	230	96	86	1.68
	61	21	30	48	54	61	70	85	99	117	133	145	157	92	84	1.56
	57 61	90	18	50	66	76	87	98	110	125	148	172	243	106	95	1.64
EL PASO	57	26	82	101	114	158	173	203	241	270	316	345	613	224	199	1.64
	60	26	49	90	107	115	120	127	145	166	197	214	373	150	136	1.55
	61	26	11	61	76	97	104	120	151	163	180	254	406	142	118	2.01
	57 61	78	11	81	100	111	123	147	169	197	238	313	613	172	147	1.81
FT WORTH	58	26	47	57	64	70	74	81	88	94	107	120	159	86	83	1.34
	60	26	28	35	48	59	67	76	87	94	107	127	152	79	72	1.58
	61	26	57	62	68	78	81	87	94	103	127	151	184	97	92	1.39
	58 61	78	28	52	62	69	76	82	88	99	110	137	184	88	82	1.46
GALVESTON	59	23	28	29	32	36	39	44	54	64	70	96	104	52	48	1.52
	61	26	23	27	32	40	43	51	61	66	72	76	125	55	50	1.55
	59 61	49	23	28	32	38	42	47	56	65	71	93	125	53	49	1.53
HOUSTON	57	26	14	59	90	112	122	135	147	161	189	206	252	135	118	1.85
	58	25	57	72	78	85	90	103	111	123	151	214	284	116	107	1.47
	59	24	24	70	81	85	96	107	120	135	143	166	361	118	107	1.60
	60	26	26	61	70	85	93	104	115	123	151	180	385	117	103	1.66
	61	24	49	51	58	62	72	80	87	107	127	197	255	98	87	1.58
	57 61	125	14	59	72	83	92	106	119	134	151	195	385	117	104	1.64
SAN ANTONIO	57	26	28	59	67	76	99	115	127	151	173	197	630	135	111	1.84
	58	23	24	38	90	114	127	136	142	148	161	214	473	145	122	1.88
	59	22	63	64	76	87	96	107	115	123	158	173	318	118	109	1.50
	60	23	50	64	90	97	104	115	123	133	145	197	296	124	115	1.47
	61	24	46	48	52	57	64	69	74	90	101	151	504	96	80	1.69
	57 61	118	24	54	67	80	94	108	121	136	153	186	630	124	106	1.71
TEXAS CITY	59	23	30	34	42	48	54	72	83	96	107	151	170	79	69	1.68
	61	23	26	38	54	57	61	76	82	87	96	139	196	78	71	1.55
	59 61	46	26	37	46	54	60	70	82	90	104	135	196	78	70	1.61
WACO	58	25	40	57	64	81	90	97	102	114	127	151	313	106	96	1.55
	60	25	10	38	45	57	64	73	90	97	102	127	156	76	65	1.91
	61	26	44	51	57	64	67	72	76	85	117	139	281	89	79	1.56
	58 61	76	10	46	56	64	70	78	92	100	114	139	313	90	79	1.71
UTAH																
SALT LAKE CITY	57	22	68	81	90	107	117	127	135	143	166	197	267	132	125	1.39
	58	24	44	56	62	70	81	85	90	117	151	173	229	101	92	1.53
	59	26	45	54	64	81	85	90	114	127	161	180	333	117	103	1.65
	60	25	47	64	76	84	90	103	117	143	161	214	309	121	108	1.61
	61	22	36	64	83	94	103	114	127	151	214	254	407	145	124	1.76
	57 61	119	36	60	78	84	91	105	120	139	161	200	407	122	109	1.60

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
VERMONT																
BURLINGTON	57	26	24	32	36	41	44	50	57	64	71	76	83	53	50	1.42
	58	26	22	23	30	35	40	45	50	52	64	72	156	51	45	1.59
	59	26	22	29	32	38	40	44	54	64	82	87	122	55	49	1.58
	60	25	25	30	34	42	47	52	57	64	76	96	106	56	52	1.49
	61	24	19	32	42	47	54	61	67	76	85	101	117	63	58	1.55
	57 61	127	19	29	34	39	44	50	55	65	75	88	156	55	51	1.53
VIRGINIA																
DANVILLE	60	25	41	50	54	62	68	79	84	96	107	151	247	88	80	1.53
HAMPTON	58	25	27	40	45	57	60	64	79	87	99	127	162	75	68	1.56
	60	26	37	42	50	66	70	76	82	86	99	114	142	78	74	1.43
	61	26	19	33	36	40	43	51	58	62	76	85	109	54	50	1.49
	58 61	77	19	36	41	50	58	64	73	82	89	110	162	69	63	1.53
NORFOLK	57	25	60	83	90	99	104	112	117	125	133	151	168	111	108	1.28
	58	25	48	76	83	94	103	120	133	151	163	180	209	121	113	1.48
	59	26	46	67	73	83	90	100	110	117	127	151	270	111	102	1.51
	60	26	39	45	64	69	72	76	84	90	117	135	242	89	82	1.51
	61	25	44	49	52	66	71	81	90	107	120	180	194	89	82	1.52
	57 61	127	39	56	69	78	87	98	108	120	136	162	270	104	96	1.49
PORTSMOUTH	61	24	47	54	64	70	80	87	94	107	117	151	159	91	87	1.39
RICHMOND	57	26	50	59	66	74	90	96	103	107	135	151	232	101	94	1.46
	59	26	35	47	52	67	70	75	94	103	139	166	213	93	84	1.60
	61	24	26	32	50	57	64	70	76	90	107	166	206	82	72	1.69
	57 61	76	26	47	56	66	71	79	95	103	131	161	232	93	83	1.59
ROANOKE	59	23	42	54	64	78	83	90	101	114	127	214	343	112	98	1.67
WASHINGTON																
SEATTLE	57	25	41	54	61	90	110	117	122	135	151	214	446	125	107	1.72
	59	26	35	45	54	66	71	78	85	90	103	127	166	82	77	1.48
	60	26	32	42	47	52	57	64	70	74	90	117	141	69	64	1.47
	61	25	43	47	52	58	62	70	76	90	99	151	361	87	76	1.60
	57 61	102	32	45	52	60	67	75	86	100	120	145	446	90	79	1.62
SPOKANE	60	26	35	54	61	76	90	120	143	158	180	214	299	129	111	1.78
	61	25	31	54	67	76	90	107	120	143	161	197	251	113	101	1.66
	60 61	51	31	52	64	74	90	114	131	151	172	206	299	121	106	1.72
TACOMA	58	24	37	42	54	61	90	101	117	151	170	214	250	111	95	1.79
	60	23	46	57	67	73	83	127	151	180	214	302	347	143	120	1.83
	58 60	47	37	51	59	69	85	107	133	163	197	234	347	127	107	1.82
WEST VIRGINIA																
CHARLESTON	57	23	44	57	76	85	99	120	166	254	359	468	655	207	150	2.25
	58	23	45	54	80	87	99	139	166	214	254	427	708	192	146	2.10
	59	24	20	32	107	117	166	214	273	302	386	427	612	243	187	2.32
	60	25	55	64	76	99	117	189	206	254	286	604	958	225	165	2.16
	61	26	55	81	90	133	145	227	270	302	404	604	883	281	211	2.16
	57 61	121	20	64	82	99	122	166	224	278	365	468	958	231	171	2.20
HUNTINGTON	60	24	56	64	83	90	107	117	127	141	151	197	219	122	114	1.46
WHEELING	57	25	137	151	157	166	171	180	197	227	254	290	344	202	195	1.29
	59	23	74	76	114	127	139	161	180	214	241	404	444	198	173	1.68
	57 59	48	74	114	137	151	162	173	191	221	247	302	444	200	184	1.50
WISCONSIN																
MADISON	59	26	31	45	51	70	76	87	97	104	114	120	340	92	81	1.62
	61	26	30	50	56	61	64	73	85	94	107	120	215	83	76	1.50
	59 61	52	30	45	54	64	72	80	90	99	111	123	340	88	79	1.56

TABLE 2.3 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MILWAUKEE	57	25	64	90	101	117	127	145	158	180	227	302	367	163	147	1.57
	58	26	89	96	107	116	121	132	146	158	180	203	358	148	140	1.40
	59	25	77	90	107	122	130	138	143	151	197	234	249	146	139	1.39
	60	24	49	54	99	107	127	143	161	186	197	214	299	150	137	1.57
	61	23	56	64	101	112	122	137	146	166	191	234	282	146	135	1.53
	57 61	123	49	86	102	114	125	137	148	170	196	236	367	151	139	1.49
RACINE	57	23	56	61	90	111	119	135	151	170	191	254	273	143	130	1.59
	60	23	74	83	107	114	120	151	166	180	203	241	289	155	145	1.46
	57 60	46	56	76	9[illegible]	112	120	133	159	176	203	234	289	149	137	1.52
WYOMING																
CHEYENNE	57	26	22	29	32	46	50	54	58	61	67	73	130	56	51	1.51
	58	24	16	23	36	40	45	51	57	68	76	90	100	55	50	1.59
	59	26	13	19	23	35	40	47	52	57	64	72	94	47	41	1.69
	60	23	13	15	19	32	34	37	40	45	51	64	82	39	34	1.67
	61	25	10	17	18	21	23	27	34	42	50	61	68	33	29	1.66
	57 61	124	10	18	23	32	38	44	50	56	62	75	130	46	40	1.69

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BIRMINGHAM	WINTER	30	59	72	94	107	122	151	168	197	302	393	640	191	158	1.85
	SPRING	32	50	54	72	90	114	133	151	166	191	227	424	140	123	1.69
	SUMMER	28	31	45	67	73	85	101	115	127	166	203	288	114	99	1.74
	AUTUMN	32	38	50	57	90	103	117	186	203	264	292	469	159	128	1.98
	57 61	122	31	54	71	90	106	121	151	178	209	281	640	152	126	1.85
MOBILE	WINTER	12	29	32	38	64	76	180	214	254	331	359	485	189	131	2.66
	SPRING	13	62	64	76	90	99	117	127	135	143	180	377	129	114	1.61
	SUMMER	12	48	50	54	90	93	97	100	104	180	254	282	121	105	1.72
	AUTUMN	13	72	76	107	127	139	180	214	227	241	302	452	189	167	1.68
	58 60	50	29	54	73	92	101	120	146	180	238	302	485	157	127	1.93
MONTGOMERY	WINTER	13	26	27	50	54	59	70	76	83	90	127	157	73	67	1.58
	SPRING	12	38	38	45	64	70	76	83	90	139	151	165	90	81	1.64
	SUMMER	13	48	54	61	64	66	71	74	76	90	107	117	76	74	1.28
	AUTUMN	13	44	45	61	64	70	83	90	94	99	107	111	79	76	1.33
	59 61	51	26	45	56	61	66	73	80	90	102	122	165	79	74	1.46
ALASKA																
ANCHORAGE	WINTER	29	19	24	32	37	43	50	54	70	85	99	152	57	49	1.71
	SPRING	33	16	27	59	72	90	127	141	180	206	278	338	135	102	2.30
	SUMMER	34	32	40	54	81	107	122	139	180	214	254	330	135	111	1.96
	AUTUMN	32	19	25	29	38	45	81	107	151	254	302	487	122	80	2.58
	57 61	128	16	27	37	45	67	86	112	142	185	254	487	114	83	2.27
ARIZONA																
PHOENIX	WINTER	31	60	127	230	254	278	310	335	359	400	454	573	312	286	1.59
	SPRING	33	98	127	141	151	186	208	224	239	254	302	421	206	194	1.43
	SUMMER	29	93	103	111	116	122	127	137	151	180	234	407	153	143	1.40
	AUTUMN	32	86	120	180	197	210	227	247	270	302	359	449	240	223	1.48
	57 61	125	60	113	127	151	191	218	241	271	307	374	573	229	207	1.58
TUCSON	WINTER	11	74	76	90	107	151	166	173	180	214	359	521	189	161	1.76
	SPRING	14	61	64	120	127	137	141	146	166	180	234	241	152	144	1.42
	SUMMER	13	36	38	67	70	73	99	107	127	135	151	222	102	92	1.62
	AUTUMN	10	63	64	99	107	114	120	127	180	214	234	230	141	131	1.51
	60 61	48	36	66	90	104	118	132	146	163	180	230	521	145	129	1.63
ARKANSAS																
LITTLE ROCK	WINTER	32	29	32	39	45	64	73	83	96	117	135	190	78	68	1.68
	SPRING	33	31	42	50	54	59	68	83	96	104	133	143	78	71	1.52
	SUMMER	32	31	51	57	64	69	73	79	87	100	117	170	80	76	1.39
	AUTUMN	32	34	48	57	66	71	76	90	107	123	143	169	89	82	1.51
	57 61	129	29	41	51	59	66	73	83	96	110	131	190	81	74	1.53
CALIFORNIA																
BERKELEY	WINTER	11	28	32	34	36	38	70	76	90	127	151	165	77	65	1.84
	SPRING	13	20	23	42	43	45	64	76	90	107	197	211	85	68	2.00
	SUMMER	13	40	45	64	70	76	117	122	127	133	145	151	101	94	1.53
	AUTUMN	14	33	35	54	57	64	76	127	143	151	254	286	113	91	2.00
	59 61	51	20	36	42	55	63	74	110	127	142	180	286	95	79	1.86
BURBANK	WINTER	11	41	45	76	90	107	180	197	214	302	393	391	189	153	2.05
	SPRING	14	48	54	107	114	127	151	161	180	191	214	228	148	138	1.52
	SUMMER	13	103	107	135	143	151	166	173	180	197	302	316	173	165	1.35
	AUTUMN	13	49	54	166	180	197	227	241	254	302	427	433	228	204	1.72
	57 60	51	41	90	112	137	156	172	188	206	244	331	433	184	163	1.67
FRESNO	WINTER	11	18	19	45	59	64	114	120	127	180	302	372	130	95	2.37
	SPRING	14	18	19	64	76	85	90	94	103	107	166	168	93	83	1.78
	SUMMER	13	71	76	99	107	111	119	123	127	139	166	178	118	115	1.30
	AUTUMN	11	62	64	90	117	127	139	145	151	180	214	304	148	137	1.53
	58 60	49	18	57	72	87	101	112	120	131	151	175	372	121	104	1.79
GLENDALE	WINTER	11	93	94	99	103	107	151	161	170	180	214	255	143	136	1.39
	SPRING	13	54	54	64	76	83	99	107	127	151	214	236	114	102	1.62
	SUMMER	11	64	64	117	127	139	166	180	197	214	254	341	171	158	1.54
	AUTUMN	13	72	76	135	143	151	227	241	254	270	302	495	215	190	1.68
	59 61	48	54	70	95	105	127	144	168	197	222	266	495	161	143	1.64

TABLE 24 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
LONG BEACH	WINTER	11	61	64	107	127	151	197	214	302	393	427	566	241	199	1.93
	SPRING	14	49	54	76	90	101	107	127	139	145	214	270	119	108	1.57
	SUMMER	14	69	76	90	107	135	143	151	166	173	197	184	134	128	1.37
	AUTUMN	12	106	107	161	180	189	197	206	214	234	244	238	195	191	1.24
	58 61	51	48	76	96	114	136	155	173	191	210	254	566	167	148	1.64
LOS ANGELES	WINTER	28	58	99	127	139	161	189	214	262	278	302	594	207	183	1.68
	SPRING	35	83	93	101	115	127	146	157	170	180	241	346	155	145	1.42
	SUMMER	28	93	110	118	124	151	173	188	199	206	234	279	170	163	1.35
	AUTUMN	28	50	117	155	163	176	203	241	268	281	302	361	215	197	1.57
	57 61	119	50	99	116	133	155	170	186	208	250	289	594	185	169	1.52
OAKLAND	WINTER	18	53	59	67	70	76	107	120	135	143	214	289	118	104	1.64
	SPRING	19	23	35	45	54	70	76	78	83	88	96	96	68	64	1.48
	SUMMER	18	35	45	64	66	71	76	83	90	99	117	165	81	76	1.47
	AUTUMN	19	57	67	73	90	101	127	133	145	166	197	243	124	115	1.52
	58 61	74	23	47	65	70	75	83	92	107	130	170	289	98	87	1.62
PASADENA	WINTER	13	63	64	83	90	107	127	135	143	151	180	219	125	117	1.47
	SPRING	14	38	38	59	64	107	117	127	158	166	180	186	114	102	1.69
	SUMMER	10	79	90	135	143	151	161	170	180	197	214	381	173	160	1.49
	AUTUMN	12	111	111	115	123	127	151	161	170	197	214	224	150	146	1.25
	57 60	49	38	64	90	114	125	139	151	163	175	200	381	138	126	1.54
RICHMOND	WINTER	12	28	30	32	45	54	76	83	90	107	180	186	83	69	1.86
	SPRING	10	19	19	27	40	42	43	45	68	72	76	98	52	47	1.67
	SUMMER	14	38	38	54	56	60	62	64	80	83	90	93	66	63	1.31
	AUTUMN	12	36	38	54	70	76	80	83	87	107	117	114	78	75	1.38
	58 60	48	19	35	42	48	59	67	76	83	89	104	186	70	63	1.59
SACRAMENTO	WINTER	13	11	11	45	54	64	83	90	107	127	151	403	101	74	2.33
	SPRING	12	14	15	16	54	54	67	70	73	90	107	122	63	54	1.93
	SUMMER	12	32	32	38	59	64	70	76	80	87	90	117	69	65	1.45
	AUTUMN	14	22	23	76	90	107	151	161	180	214	254	264	143	120	1.99
	58 60	51	11	32	48	60	69	78	87	103	135	180	403	96	76	2.04
SAN BERNARDINO	WINTER	18	35	45	64	99	114	127	158	173	180	286	317	151	127	1.89
	SPRING	17	62	83	90	114	127	161	170	191	214	278	338	164	148	1.60
	SUMMER	18	102	151	170	180	203	234	266	290	302	331	349	234	223	1.40
	AUTUMN	16	53	151	166	197	214	241	302	321	359	427	470	260	232	1.72
	57 61	69	35	83	114	145	166	184	210	259	292	334	470	201	175	1.75
SAN DIEGO	WINTER	29	55	64	83	97	107	119	127	151	173	197	241	125	116	1.50
	SPRING	30	27	38	55	58	61	64	79	87	95	102	151	73	69	1.45
	SUMMER	33	45	47	55	59	63	69	74	83	96	120	231	80	73	1.46
	AUTUMN	32	50	54	64	74	82	90	103	115	133	151	233	100	93	1.47
	57 61	124	27	52	59	64	73	83	94	105	122	161	241	94	85	1.54
SAN FRANCISCO	WINTER	32	35	48	57	72	92	100	107	143	186	203	253	113	99	1.72
	SPRING	33	34	38	42	44	49	56	61	67	76	96	156	61	58	1.42
	SUMMER	33	20	24	30	34	40	48	59	70	80	96	117	54	48	1.63
	AUTUMN	30	30	40	46	50	54	69	76	83	90	127	238	78	70	1.59
	57 61	128	20	34	42	47	53	64	74	86	100	145	253	76	66	1.71
SAN JOSE	WINTER	19	23	27	38	90	115	123	127	151	214	278	303	136	104	2.28
	SPRING	19	27	32	59	81	90	101	107	127	139	151	251	105	92	1.74
	SUMMER	19	50	54	76	94	103	112	117	127	137	146	179	108	102	1.43
	AUTUMN	20	66	83	93	99	104	117	133	145	180	214	307	139	129	1.47
	57 61	77	23	50	76	91	102	113	124	137	149	203	307	122	106	1.76
STOCKTON	WINTER	6	20	23	23	45	45	76	83	83	90	90	273	96	71	2.37
	SPRING	7	35	38	38	54	76	107	107	117	127	127	141	92	82	1.69
	SUMMER	6	79	90	90	107	107	135	143	143	151	151	157	128	124	1.30
	AUTUMN	7	94	107	107	127	151	166	166	183	254	254	316	178	165	1.51
	58 58	26	20	45	70	85	96	114	132	141	161	180	316	124	105	1.86
COLORADO DENVER	WINTER	32	56	76	99	132	146	161	175	194	234	278	341	169	154	1.56
	SPRING	32	15	48	59	76	92	100	107	122	145	180	265	107	94	1.75
	SUMMER	28	57	66	72	76	96	101	107	115	120	127	134	97	95	1.28
	AUTUMN	31	39	54	68	80	90	112	127	145	166	214	242	117	104	1.64
	57 61	123	15	60	73	90	100	111	125	142	166	214	341	123	110	1.64

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
CONNECTICUT BRIDGEPORT	WINTER	7	51	54	54	76	90	127	127	139	151	151	191	114	105	1.59
	SPRING	11	49	50	54	68	72	96	101	107	127	151	152	91	86	1.44
	SUMMER	14	41	45	54	81	90	99	107	117	122	151	175	96	89	1.53
	AUTUMN	13	25	27	64	76	99	127	133	139	145	180	267	113	98	1.84
	58 60	45	25	50	64	76	90	102	113	127	139	161	267	103	93	1.60
HARTFORD	WINTER	33	42	54	62	76	87	107	119	133	151	203	279	113	100	1.64
	SPRING	33	44	57	66	71	76	92	98	103	112	139	314	98	90	1.48
	SUMMER	27	38	41	44	54	67	76	83	94	107	135	152	82	75	1.52
	AUTUMN	33	28	38	64	76	81	88	107	119	133	166	241	100	89	1.67
	57 61	126	28	45	59	69	78	88	99	112	131	157	314	99	89	1.59
NEW BRITAIN	WINTER	11	37	38	59	64	79	84	87	90	107	151	247	95	85	1.60
	SPRING	13	43	45	64	70	76	83	87	90	117	151	186	92	86	1.48
	SUMMER	13	50	54	81	85	90	107	112	117	122	151	169	102	97	1.36
	AUTUMN	10	53	54	57	61	64	81	85	90	139	151	203	97	88	1.57
	59 61	47	37	55	61	76	81	85	89	110	127	146	247	96	89	1.48
NEW HAVEN	WINTER	28	44	59	70	76	87	95	102	117	139	170	201	105	97	1.49
	SPRING	30	52	55	60	64	76	84	96	110	120	139	248	95	88	1.47
	SUMMER	34	42	50	59	66	73	80	90	104	113	124	135	85	81	1.37
	AUTUMN	30	41	43	54	62	67	72	76	94	107	143	175	83	76	1.50
	57 61	122	41	51	59	67	73	83	94	104	120	143	248	91	85	1.47
STAMFORD	WINTER	13	51	54	70	76	96	107	117	127	166	214	247	120	108	1.61
	SPRING	14	20	23	45	50	76	90	107	135	143	214	222	99	81	2.01
	SUMMER	13	32	32	54	64	70	80	83	87	90	197	193	89	77	1.73
	AUTUMN	12	40	45	70	93	97	100	104	107	127	151	162	100	95	1.44
	57 60	52	20	42	54	71	82	94	103	119	146	189	247	102	89	1.72
WATERBURY	WINTER	8	38	38	64	64	70	76	107	127	127	166	167	97	87	1.67
	SPRING	13	26	27	40	43	45	54	59	64	70	107	170	64	56	1.62
	SUMMER	14	63	64	76	80	87	90	94	103	107	127	143	95	93	1.26
	AUTUMN	11	43	45	54	68	72	90	107	127	214	254	266	119	99	1.88
	58 61	46	26	42	51	64	69	76	90	100	117	161	266	92	81	1.66
DELAWARE WILMINGTON	WINTER	23	77	117	166	214	234	262	278	294	359	427	743	279	248	1.66
	SPRING	26	53	101	127	139	147	170	227	254	278	294	356	195	177	1.60
	SUMMER	25	79	87	114	132	141	158	173	197	214	278	349	168	156	1.49
	AUTUMN	22	57	64	99	111	119	127	151	180	214	254	306	150	138	1.53
	57 61	96	53	95	114	132	148	172	206	239	273	302	743	198	175	1.64
DIST. OF COL. WASHINGTON	WINTER	24	65	76	99	107	122	132	141	180	203	241	268	145	135	1.48
	SPRING	23	61	64	73	83	94	107	120	133	145	197	231	118	110	1.47
	SUMMER	20	54	54	70	80	87	92	97	102	107	120	145	92	89	1.30
	AUTUMN	25	30	38	70	85	93	104	117	151	170	227	242	117	101	1.77
	58 61	92	30	64	75	89	97	104	117	133	157	208	268	119	108	1.56
FLORIDA JACKSONVILLE	WINTER	12	76	76	83	99	107	139	151	166	191	203	197	134	126	1.44
	SPRING	14	48	54	61	64	114	120	127	151	161	180	220	116	105	1.60
	SUMMER	12	23	23	48	54	57	61	64	76	90	107	133	67	62	1.55
	AUTUMN	14	53	54	64	83	94	99	103	114	120	151	157	98	94	1.37
	58 60	52	23	52	59	76	86	97	110	127	151	175	220	104	94	1.60
MIAMI	WINTER	18	45	47	50	52	57	62	76	82	84	90	134	69	66	1.35
	SPRING	20	33	39	42	45	49	52	57	64	76	90	124	60	57	1.40
	SUMMER	19	31	34	37	40	45	54	56	59	62	76	106	53	51	1.37
	AUTUMN	18	25	38	43	45	48	51	54	58	60	64	89	52	51	1.32
	57 61	75	25	38	42	46	50	54	58	62	74	87	134	59	56	1.38
ORLANDO	WINTER	11	46	54	76	81	85	94	99	103	107	127	163	93	89	1.37
	SPRING	11	52	54	59	64	76	85	90	96	101	107	164	85	81	1.38
	SUMMER	11	41	42	45	47	50	54	59	64	70	76	90	57	55	1.27
	AUTUMN	12	23	23	27	50	54	59	64	76	90	99	98	62	56	1.62
	59 61	45	23	45	50	56	62	74	81	88	96	105	164	74	69	1.50

TABLE 2.4—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE—Continued

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ST PETERSBURG	WINTER	6	43	40	40	43	43	45	50	50	54	54	63	49	48	1.16
	SPRING	7	37	38	38	40	42	43	43	45	54	54	62	45	44	1.18
	SUMMER	6	28	30	30	32	32	40	42	42	43	43	44	37	37	1.22
	AUTUMN	6	36	38	38	45	45	54	64	64	70	70	76	54	53	1.32
	61 61	25	28	35	39	40	42	43	44	50	54	64	76	46	45	1.26
TAMPA	WINTER	30	43	59	69	76	82	88	99	114	156	170	233	103	95	1.49
	SPRING	33	39	54	72	80	86	94	99	105	115	139	168	95	90	1.39
	SUMMER	33	34	57	64	68	71	76	81	87	93	104	122	79	77	1.27
	AUTUMN	33	35	57	67	72	76	85	92	99	105	119	173	87	84	1.35
	57 61	129	34	58	66	72	78	85	91	99	108	126	233	91	86	1.39
GEORGIA ATLANTA	WINTER	29	43	54	73	85	101	114	120	139	170	214	241	122	110	1.61
	SPRING	31	50	59	67	76	84	101	120	133	142	151	338	113	102	1.55
	SUMMER	29	28	54	76	87	95	102	107	117	127	151	200	104	95	1.56
	AUTUMN	28	34	54	70	78	82	87	94	107	115	127	268	99	91	1.51
	57 61	117	28	57	70	80	88	99	110	122	140	172	338	109	99	1.56
AUGUSTA	WINTER	12	34	35	38	45	54	59	64	70	107	127	142	68	62	1.57
	SPRING	14	29	32	36	38	54	59	64	70	73	90	211	65	57	1.65
	SUMMER	13	33	38	54	64	67	73	76	90	99	127	132	77	72	1.48
	AUTUMN	12	28	32	64	90	83	87	90	107	180	214	225	110	95	1.80
	58 61	51	28	35	43	54	62	69	75	85	103	139	225	79	69	1.67
COLUMBUS	WINTER	11	28	32	38	64	70	107	127	135	143	151	158	94	83	1.77
	SPRING	14	44	45	70	76	101	107	114	127	133	145	151	104	98	1.48
	SUMMER	13	37	38	54	90	96	107	112	117	122	151	160	100	92	1.54
	AUTUMN	13	35	38	70	76	83	94	99	103	107	197	209	103	93	1.59
	57 60	51	28	45	64	74	92	101	110	122	135	148	209	101	92	1.57
MACON	WINTER	12	32	32	54	70	76	96	101	107	151	197	191	101	89	1.69
	SPRING	13	22	23	45	54	64	83	90	151	180	278	298	117	89	2.19
	SUMMER	12	20	23	32	54	64	68	72	76	90	107	120	66	60	1.65
	AUTUMN	13	48	50	68	72	76	99	107	127	151	359	754	167	115	2.23
	58 60	50	20	42	51	64	71	79	93	107	143	214	754	114	87	2.00
SAVANNAH	WINTER	13	58	64	72	76	83	94	99	103	107	127	155	94	91	1.31
	SPRING	13	37	38	59	62	64	72	76	83	90	127	157	80	75	1.44
	SUMMER	14	30	32	45	54	59	62	64	68	70	74	76	59	57	1.33
	AUTUMN	9	45	45	54	70	76	90	90	107	127	151	192	94	85	1.59
	59 61	49	30	45	57	63	67	72	75	87	101	122	192	80	75	1.46
HAWAII HONOLULU	WINTER	30	31	38	41	44	48	51	57	64	79	87	123	60	56	1.42
	SPRING	33	30	34	38	42	45	50	54	57	61	68	87	51	49	1.28
	SUMMER	30	24	27	32	36	39	42	45	49	53	61	106	45	43	1.38
	AUTUMN	31	21	33	35	38	41	45	50	56	62	85	120	52	48	1.44
	57 61	124	21	33	37	40	43	47	51	56	62	79	123	52	49	1.40
IDAHO BOISE	WINTER	31	46	59	70	90	107	123	133	142	151	180	196	118	110	1.49
	SPRING	33	29	54	67	73	79	90	97	105	117	139	188	94	88	1.45
	SUMMER	32	45	59	76	90	103	111	117	123	143	170	435	121	108	1.58
	AUTUMN	31	27	76	87	107	115	125	135	147	166	191	243	126	116	1.55
	57 61	127	27	60	73	85	99	111	120	130	145	171	435	114	105	1.53
ILLINOIS CHICAGO	WINTER	23	120	135	155	163	172	187	200	214	225	243	245	187	184	1.20
	SPRING	20	94	117	166	187	200	214	234	254	316	345	714	244	220	1.57
	SUMMER	22	65	90	107	154	161	167	174	180	206	227	254	165	157	1.40
	AUTUMN	24	93	107	157	168	187	200	214	254	270	294	387	207	195	1.43
	58 61	89	65	115	152	164	175	189	203	221	242	281	714	200	187	1.43
EAST ST LOUIS	WINTER	11	141	151	214	234	254	286	302	331	359	427	466	286	272	1.41
	SPRING	12	76	76	83	127	139	151	166	180	214	254	328	161	147	1.56
	SUMMER	13	32	32	120	127	139	180	197	214	278	359	549	203	169	1.96
	AUTUMN	9	112	127	151	166	180	214	214	234	254	359	386	212	197	1.50
	58 61	45	32	111	127	147	168	197	222	264	302	359	549	214	189	1.70

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PEORIA	WINTER	6	70	76	76	127	127	197	214	214	254	254	259	182	166	1.66
	SPRING	6	141	135	135	143	143	151	214	214	278	278	294	197	188	1.40
	SUMMER	6	58	64	64	90	90	127	135	135	143	143	149	115	109	1.46
	AUTUMN	7	75	76	76	107	139	151	151	234	254	254	261	169	155	1.58
	58 58	25	58	76	107	130	136	145	151	214	241	278	294	166	152	1.57
ROCKFORD	WINTER	13	55	57	64	76	81	90	99	107	112	122	123	90	87	1.31
	SPRING	14	36	38	61	64	72	76	90	127	139	214	326	110	93	1.77
	SUMMER	13	41	45	72	76	81	90	94	99	103	139	130	88	85	1.35
	AUTUMN	12	22	23	50	64	70	76	81	85	107	127	366	96	76	1.92
	59 61	52	22	54	61	69	76	83	90	101	117	139	366	96	85	1.60
INDIANA																
EAST CHICAGO	WINTER	26	56	117	135	161	180	206	241	266	302	359	570	226	201	1.65
	SPRING	31	66	76	90	127	145	173	203	241	278	331	978	205	169	1.81
	SUMMER	25	90	107	120	137	146	170	197	241	270	331	479	195	177	1.55
	AUTUMN	30	67	99	127	145	163	180	206	262	286	331	459	206	186	1.60
	57 61	112	56	90	120	141	159	180	209	250	285	338	978	208	183	1.66
EVANSVILLE	WINTER	14	59	64	101	107	114	117	120	127	139	166	171	120	116	1.30
	SPRING	13	61	64	81	85	90	132	137	141	146	180	252	124	116	1.47
	SUMMER	13	65	67	73	76	83	107	114	120	127	166	167	105	100	1.40
	AUTUMN	11	13	13	76	90	99	117	127	135	143	151	237	118	100	2.10
	57 60	51	13	68	78	90	102	114	123	134	144	163	252	117	108	1.56
FORT WAYNE	WINTER	14	76	76	99	107	114	117	120	127	151	214	304	135	127	1.42
	SPRING	12	85	90	96	107	112	117	122	127	151	180	206	124	120	1.29
	SUMMER	13	61	64	76	83	90	101	107	114	120	139	149	101	97	1.32
	AUTUMN	13	72	68	76	112	117	127	135	143	151	214	244	132	124	1.45
	57 60	52	61	72	87	101	109	115	121	127	145	180	304	123	117	1.39
GARY	WINTER	13	108	114	127	151	180	241	254	302	331	427	945	279	232	1.80
	SPRING	13	77	90	135	143	151	214	254	302	382	427	509	243	207	1.83
	SUMMER	13	100	107	151	180	234	278	302	359	427	556	525	296	260	1.73
	AUTUMN	11	131	135	143	151	158	173	180	214	302	427	534	221	199	1.57
	58 60	50	77	120	138	151	172	221	254	302	382	508	945	261	224	1.73
HAMMOND	WINTER	12	58	59	64	72	76	99	107	114	127	180	221	104	96	1.51
	SPRING	13	66	76	107	127	135	151	166	180	254	302	381	173	153	1.66
	SUMMER	13	56	64	99	107	114	127	180	197	214	331	318	159	140	1.69
	AUTUMN	13	97	99	112	117	122	135	143	151	166	197	212	138	134	1.28
	59 61	51	56	70	92	105	114	125	143	166	197	254	381	144	130	1.58
INDIANAPOLIS	WINTER	30	111	117	127	157	167	177	197	222	246	302	352	196	187	1.37
	SPRING	28	98	112	127	134	144	158	180	200	214	238	265	168	163	1.32
	SUMMER	30	87	110	120	129	137	144	151	168	189	214	260	155	149	1.31
	AUTUMN	31	87	107	117	127	145	159	167	175	187	207	354	160	153	1.34
	57 61	119	87	112	122	135	148	160	171	186	208	244	354	170	162	1.35
SOUTH BEND	WINTER	9	28	32	64	83	90	107	107	139	151	166	177	107	94	1.77
	SPRING	13	35	38	54	76	90	127	166	180	214	254	355	147	119	2.02
	SUMMER	15	62	64	76	83	87	94	99	107	127	214	236	110	101	1.48
	AUTUMN	13	54	54	70	76	96	107	117	127	139	214	267	116	104	1.61
	59 61	50	28	54	67	80	90	101	115	139	173	214	355	120	105	1.70
TERRE HAUTE	WINTER	6	55	64	64	139	139	151	180	180	197	197	203	153	142	1.63
	SPRING	7	53	54	54	76	107	127	127	139	151	151	155	109	103	1.47
	SUMMER	6	66	68	68	72	72	76	107	107	127	127	196	102	94	1.52
	AUTUMN	7	73	76	76	90	107	117	117	127	139	139	135	108	106	1.24
	61 61	26	53	66	71	90	101	117	131	139	151	180	203	118	110	1.48
IOWA																
DAVENPORT	WINTER	9	62	64	76	96	101	107	107	139	151	214	237	123	112	1.57
	SPRING	12	40	45	107	120	127	139	151	161	180	254	276	146	134	1.61
	SUMMER	13	71	76	85	90	99	114	120	127	151	197	213	125	118	1.42
	AUTUMN	12	6	6	54	85	90	93	97	100	107	117	119	88	74	2.27
	58 61	46	6	70	83	93	99	107	120	132	158	191	276	120	107	1.79

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
DES MOINES	WINTER	31	59	76	99	114	124	155	166	176	203	241	462	165	146	1.63
	SPRING	32	71	85	101	139	154	164	174	197	286	359	401	191	171	1.62
	SUMMER	31	81	90	112	127	139	161	187	207	227	247	266	166	156	1.43
	AUTUMN	32	74	81	88	100	110	120	139	161	180	234	317	142	131	1.49
	57 61	126	59	84	99	115	130	152	167	180	217	262	462	166	150	1.56
KANSAS KANSAS CITY	WINTER	6	28	32	32	107	107	127	135	135	143	143	144	110	98	1.88
	SPRING	7	62	64	64	70	76	90	90	166	180	180	196	117	106	1.63
	SUMMER	7	93	96	96	101	107	117	117	127	151	151	203	126	122	1.31
	AUTUMN	6	70	76	76	99	99	107	139	139	151	151	189	120	114	1.40
	60 60	26	28	68	76	96	101	114	131	139	151	180	203	119	110	1.53
TOPEKA	WINTER	11	39	45	54	70	76	90	107	114	120	127	158	91	85	1.49
	SPRING	13	61	64	90	94	99	107	110	114	117	124	118	99	97	1.23
	SUMMER	12	51	54	76	96	99	101	104	107	127	139	142	103	100	1.30
	AUTUMN	11	52	54	59	64	76	85	90	96	101	107	152	85	82	1.34
	59 61	47	39	57	69	81	91	97	102	109	118	125	158	95	91	1.35
WICHITA	WINTER	30	41	45	59	67	72	76	84	107	131	143	159	88	82	1.49
	SPRING	25	22	51	64	80	87	107	127	145	161	254	332	122	102	1.84
	SUMMER	29	60	70	78	83	88	101	111	123	139	166	203	109	104	1.39
	AUTUMN	31	30	38	54	64	76	101	115	127	145	170	202	99	88	1.70
	57 61	115	22	50	65	73	81	90	110	127	142	167	332	104	93	1.62
KENTUCKY LOUISVILLE	WINTER	4	107	1	107	107	127	127	127	151	151	254	244	149	141	1.46
	SPRING	7	92	90	90	114	120	127	127	139	151	151	154	122	120	1.22
	SUMMER	5	73	76	76	107	107	117	117	127	127	180	164	114	110	1.36
	AUTUMN	5	118	127	127	151	151	166	166	180	180	359	319	182	171	1.46
	61 61	21	73	90	107	113	118	127	139	151	166	180	319	139	132	1.40
LOUISANA BATON ROUGE	WINTER	12	63	64	70	90	107	117	127	139	180	302	352	140	121	1.70
	SPRING	12	70	76	107	120	127	139	151	166	214	278	280	158	146	1.50
	SUMMER	13	67	76	90	107	117	133	139	145	151	214	218	132	125	1.40
	AUTUMN	13	57	64	90	107	117	139	151	180	214	302	316	159	139	1.73
	57 60	50	57	71	87	107	118	129	141	157	191	273	352	147	132	1.57
NEW ORLEANS	WINTER	30	43	57	66	72	78	84	90	100	112	127	167	89	85	1.38
	SPRING	33	52	57	72	79	83	89	94	101	107	123	214	93	89	1.34
	SUMMER	34	46	56	62	69	78	82	87	96	104	119	147	84	81	1.31
	AUTUMN	32	55	64	76	87	94	101	107	116	127	151	239	106	101	1.39
	57 61	129	43	59	68	76	82	88	95	103	114	126	239	93	89	1.37
SHREVEPORT	WINTER	13	22	23	54	64	76	90	99	107	114	127	160	85	76	1.73
	SPRING	12	43	45	64	127	139	151	166	180	197	206	198	141	130	1.61
	SUMMER	12	54	54	64	79	82	84	87	90	127	151	167	93	88	1.40
	AUTUMN	12	47	54	64	90	96	101	107	114	127	254	302	120	105	1.65
	59 61	49	22	51	64	80	88	100	110	122	151	189	302	109	97	1.65
MAINE PORTLAND	WINTER	23	54	54	72	90	99	111	119	127	151	197	231	116	107	1.52
	SPRING	26	33	50	59	70	76	87	97	104	120	151	233	100	89	1.60
	SUMMER	26	43	42	44	54	66	74	81	85	99	127	163	77	72	1.48
	AUTUMN	19	45	48	54	68	76	82	84	90	99	107	164	82	78	1.40
	58 61	94	33	45	56	68	76	84	92	104	119	158	233	94	85	1.54
MARYLAND BALTIMORE	WINTER	30	63	82	90	114	135	158	180	227	270	321	495	188	164	1.71
	SPRING	31	85	90	107	119	132	151	162	173	214	244	301	156	148	1.39
	SUMMER	33	48	83	97	105	111	118	123	131	143	170	225	121	116	1.35
	AUTUMN	33	66	71	81	88	95	105	120	137	151	170	255	116	110	1.40
	57 61	127	48	80	91	103	114	126	141	158	176	239	495	144	132	1.51
MASSACHUSETTS BOSTON	WINTER	29	70	114	130	141	151	180	194	214	231	248	286	180	171	1.42
	SPRING	30	78	93	101	117	151	161	170	180	195	209	311	157	148	1.41
	SUMMER	37	55	72	79	85	93	107	115	125	137	148	229	110	104	1.37
	AUTUMN	30	71	76	84	96	110	117	125	151	166	180	230	126	119	1.40
	57 61	126	55	79	89	105	117	130	147	165	187	214	311	141	131	1.47

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
BROCKTON	WINTER	23	29	32	70	80	87	101	117	135	151	180	301	116	100	1.77
	SPRING	25	29	47	52	64	69	76	83	94	103	151	165	81	75	1.51
	SUMMER	26	30	45	51	57	59	63	68	72	79	84	94	63	61	1.31
	AUTUMN	23	23	38	50	54	58	64	72	83	99	127	173	76	65	1.59
	58 61	97	23	45	52	59	65	72	80	89	105	141	301	83	74	1.60
CAMBRIDGE	WINTER	17	38	45	50	59	76	85	90	107	143	151	176	92	83	1.61
	SPRING	20	56	59	64	76	85	94	103	117	139	180	217	107	99	1.50
	SUMMER	19	42	57	64	72	80	87	90	101	112	122	147	88	85	1.36
	AUTUMN	19	40	43	54	64	72	83	90	112	122	151	222	96	85	1.62
	59 61	75	38	51	59	68	77	87	97	111	125	151	222	96	88	1.52
FALL RIVER	WINTER	16	18	64	76	85	90	117	135	143	234	254	326	142	114	2.08
	SPRING	17	53	54	57	62	76	90	96	107	151	197	235	104	93	1.61
	SUMMER	18	30	54	61	64	72	81	90	101	107	151	169	90	83	1.53
	AUTUMN	16	21	45	54	64	68	76	90	99	114	120	159	81	74	1.61
	58 61	67	18	52	59	67	77	87	98	114	139	180	326	104	89	1.73
LAWRENCE	WINTER	18	21	25	30	32	38	43	50	64	70	127	146	56	47	1.77
	SPRING	19	26	35	40	45	64	70	73	81	90	101	115	67	62	1.51
	SUMMER	18	34	38	50	54	68	76	85	96	101	127	186	81	73	1.58
	AUTUMN	19	24	50	56	60	64	90	94	103	114	127	132	82	76	1.56
	57 61	74	21	32	40	48	58	66	75	90	102	124	186	72	64	1.65
LOWELL	WINTER	8	15	16	32	32	38	59	64	90	90	107	129	64	53	2.01
	SPRING	13	28	30	38	45	54	83	90	99	107	166	169	82	69	1.86
	SUMMER	11	16	16	27	35	38	70	76	83	90	107	127	64	54	1.88
	AUTUMN	11	26	27	30	32	50	57	61	64	90	127	138	64	56	1.72
	59 61	43	15	27	32	38	52	62	76	85	99	127	169	69	59	1.83
LYNN	WINTER	16	45	47	50	54	64	76	83	87	107	117	131	78	73	1.43
	SPRING	18	41	48	54	57	62	67	73	80	83	90	165	72	69	1.38
	SUMMER	19	32	40	45	61	76	90	107	117	127	170	195	97	85	1.72
	AUTUMN	20	29	32	40	45	64	72	83	96	107	151	309	92	74	1.89
	57 61	73	29	41	49	57	64	74	82	90	110	151	309	85	75	1.63
NEW BEDFORD	WINTER	18	18	27	47	49	52	57	64	70	73	107	115	62	56	1.59
	SPRING	21	12	30	39	42	45	54	57	60	63	70	84	51	49	1.50
	SUMMER	19	34	36	40	43	47	50	52	57	62	76	97	53	51	1.32
	AUTUMN	18	24	26	39	41	44	47	50	54	64	76	83	49	46	1.43
	59 61	76	12	30	39	43	47	51	55	60	67	76	115	53	50	1.46
QUINCY	WINTER	21	24	32	45	51	64	83	99	112	122	180	224	91	77	1.84
	SPRING	25	41	54	64	76	82	90	99	110	117	127	144	92	87	1.38
	SUMMER	24	31	42	59	64	80	83	87	93	100	114	122	81	77	1.40
	AUTUMN	24	31	38	45	50	59	70	81	111	119	166	276	88	76	1.73
	58 61	94	24	41	51	61	75	82	89	104	115	126	276	88	79	1.59
SOMERVILLE	WINTER	18	37	45	50	52	56	60	64	76	90	101	118	67	64	1.37
	SPRING	19	29	38	43	54	61	70	76	85	117	151	191	81	71	1.69
	SUMMER	19	47	51	55	58	61	64	68	76	90	107	169	75	71	1.39
	AUTUMN	19	33	42	47	50	54	67	70	76	99	117	165	74	67	1.54
	57 61	75	29	43	48	54	58	63	71	82	97	120	191	74	65	1.50
SPRINGFIELD	WINTER	22	20	25	32	50	54	59	64	85	107	151	345	83	65	1.99
	SPRING	25	30	42	47	54	64	76	85	99	107	151	214	85	74	1.66
	SUMMER	24	35	38	55	58	62	64	72	82	87	117	173	74	69	1.46
	AUTUMN	24	17	25	40	45	64	70	76	87	96	191	200	78	65	1.87
	58 61	95	17	35	45	53	59	68	78	87	100	139	345	80	68	1.74
WORCESTER	WINTER	26	51	61	70	90	97	107	139	151	180	203	274	126	114	1.58
	SPRING	26	51	64	70	81	90	103	120	132	146	166	449	122	108	1.60
	SUMMER	27	37	50	64	73	92	98	101	107	119	127	151	93	87	1.44
	AUTUMN	24	32	34	42	54	70	79	84	107	127	161	169	84	74	1.71
	57 61	103	32	49	64	74	86	97	106	123	141	169	449	107	95	1.62
MICHIGAN DEARBORN	WINTER	13	67	66	71	74	76	117	127	139	151	254	275	126	113	1.60
	SPRING	10	66	66	68	70	72	74	76	151	166	180	212	110	100	1.57
	SUMMER	14	68	76	107	117	139	151	157	168	174	214	237	145	139	1.38
	AUTUMN	11	53	54	64	81	85	112	117	122	127	254	354	127	109	1.74
	59 61	48	53	67	72	76	101	117	132	155	169	214	354	129	116	1.57

TABLE 2.4—SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE—Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
DETROIT	WINTER	30	62	90	100	111	123	137	151	166	180	227	262	147	138	1.44
	SPRING	31	59	72	85	97	107	127	161	189	214	286	358	152	134	1.65
	SUMMER	33	48	76	99	111	123	137	148	159	172	227	259	137	128	1.48
	AUTUMN	32	54	90	100	112	120	127	151	168	214	238	303	148	137	1.48
	57 61	126	48	81	96	108	119	133	151	168	195	237	358	146	134	1.51
FLINT	WINTER	13	61	64	83	87	90	107	114	120	127	180	235	114	108	1.42
	SPRING	12	79	90	96	107	127	151	161	170	197	214	468	167	149	1.59
	SUMMER	13	74	70	90	99	107	120	127	139	151	180	191	122	117	1.35
	AUTUMN	14	49	50	76	83	107	117	127	143	151	180	209	117	107	1.54
	57 59	52	49	72	83	94	105	116	127	144	166	189	468	129	118	1.49
JACKSON	WINTER	11	11	11	30	32	54	76	83	90	96	101	103	66	56	1.99
	SPRING	13	30	32	70	76	81	90	96	101	107	127	128	89	84	1.47
	SUMMER	13	51	50	57	59	62	68	72	76	81	90	94	67	66	1.20
	AUTUMN	13	37	38	54	57	61	68	72	76	90	101	94	68	65	1.37
	58 61	50	11	38	54	60	66	72	79	87	95	104	128	73	67	1.54
KALAMAZOO	WINTER	11	30	32	64	70	76	96	101	107	127	151	156	92	85	1.57
	SPRING	14	48	50	68	72	79	82	84	90	107	180	181	95	87	1.50
	SUMMER	13	37	38	45	54	57	62	64	83	90	166	159	77	69	1.58
	AUTUMN	11	41	42	45	50	54	99	107	117	127	180	258	101	86	1.82
	57 60	49	30	43	52	61	71	81	88	100	120	163	258	91	81	1.60
LANSING	WINTER	12	34	34	36	54	59	64	70	76	90	107	113	67	62	1.49
	SPRING	12	34	38	59	76	107	114	120	127	151	166	160	108	99	1.59
	SUMMER	13	40	45	64	70	76	83	87	90	107	127	152	86	82	1.41
	AUTUMN	12	39	45	50	64	70	76	79	82	87	90	112	72	70	1.34
	57 60	49	34	42	55	63	71	79	84	90	113	127	160	83	77	1.50
SAGINAW	WINTER	13	42	40	45	68	72	83	90	99	107	127	141	83	78	1.49
	SPRING	14	46	50	64	83	99	107	117	135	143	180	186	110	101	1.54
	SUMMER	12	58	64	70	83	90	99	107	114	127	139	148	99	95	1.35
	AUTUMN	13	61	64	76	81	85	99	107	151	161	180	202	112	105	1.44
	58 60	52	42	54	67	78	85	94	105	118	137	158	202	101	94	1.47
MINNESOTA DULUTH	WINTER	18	33	38	51	54	76	90	107	120	127	143	231	96	85	1.69
	SPRING	20	40	45	57	62	67	73	80	87	133	145	401	97	81	1.70
	SUMMER	20	23	32	38	54	61	68	76	83	90	127	217	77	66	1.73
	AUTUMN	19	19	25	32	45	76	82	84	90	101	151	197	78	64	1.98
	57 61	77	19	34	46	57	68	77	83	93	122	145	401	87	73	1.78
MINNEAPOLIS	WINTER	28	45	64	87	107	119	130	141	151	170	241	375	147	131	1.65
	SPRING	35	36	50	64	83	92	101	107	135	191	254	722	141	110	1.92
	SUMMER	31	42	45	50	57	66	76	83	90	97	105	151	76	72	1.38
	AUTUMN	35	24	42	47	66	72	83	96	115	127	151	179	89	79	1.65
	57 61	129	24	46	54	71	82	93	103	120	140	180	[illegible]	112	94	1.75
ST PAUL	WINTER	18	40	64	76	80	87	94	103	112	117	127	146	96	93	1.36
	SPRING	18	59	64	72	76	107	127	139	151	161	180	265	123	113	1.53
	SUMMER	19	57	58	62	70	83	96	101	110	117	124	136	93	89	1.35
	AUTUMN	20	50	54	64	90	96	101	107	120	139	166	265	109	99	1.53
	58 61	75	40	59	67	80	91	101	110	120	132	157	265	105	98	1.46
MISSISSIPPI JACKSON	WINTER	27	19	27	38	45	59	64	76	87	117	135	203	76	64	1.79
	SPRING	32	27	35	45	50	54	64	69	74	90	166	279	80	68	1.71
	SUMMER	29	42	59	67	73	78	84	88	99	117	143	199	93	88	1.41
	AUTUMN	30	15	46	51	59	69	76	83	90	100	127	229	83	75	1.63
	57 61	118	15	40	50	57	66	73	80	89	105	142	279	83	73	1.65
MISSOURI KANSAS CITY	WINTER	32	67	76	101	127	151	166	180	195	214	302	436	175	158	1.60
	SPRING	31	74	90	103	120	135	151	166	180	200	234	320	160	150	1.43
	SUMMER	32	70	81	94	110	120	130	139	148	180	227	339	140	130	1.44
	AUTUMN	27	55	76	90	107	127	135	140	148	166	180	345	135	125	1.50
	57 61	122	55	81	99	115	130	141	153	171	196	237	436	153	141	1.50

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ST LOUIS	WINTER	31	63	83	107	143	159	176	191	208	234	270	658	187	168	1.59
	SPRING	32	27	70	107	134	144	156	170	191	241	331	374	172	150	1.77
	SUMMER	31	83	93	101	114	139	168	187	207	234	270	310	167	155	1.49
	AUTUMN	31	81	107	119	132	146	180	193	206	234	286	332	178	167	1.45
	57 61	125	27	90	111	133	150	168	185	205	232	283	658	176	160	1.58
MONTANA HELENA	WINTER	31	11	16	27	30	32	51	70	83	94	107	205	62	47	2.15
	SPRING	33	12	19	26	34	38	45	54	64	81	101	134	54	45	1.83
	SUMMER	33	17	32	51	58	64	71	76	101	115	139	377	89	74	1.83
	AUTUMN	30	20	25	29	32	37	54	64	80	90	151	466	82	57	2.21
	57 61	127	11	24	29	35	46	57	68	81	98	124	466	72	55	2.04
NEBRASKA LINCOLN	WINTER	13	22	23	38	70	76	107	135	143	151	214	223	112	91	2.07
	SPRING	15	57	64	70	90	99	127	135	151	180	234	248	126	114	1.59
	SUMMER	12	66	68	72	83	90	99	107	117	135	143	137	101	98	1.30
	AUTUMN	11	65	70	76	81	85	99	107	127	139	151	170	104	99	1.37
	57 60	51	22	64	71	78	88	102	122	136	147	191	248	112	101	1.6[illegible]
OMAHA	WINTER	30	18	43	54	76	87	101	113	121	133	151	195	99	89	1.69
	SPRING	31	44	70	81	88	107	118	127	155	165	180	230	125	116	1.51
	SUMMER	32	64	76	87	99	107	113	119	125	139	151	198	115	111	1.31
	AUTUMN	30	19	59	76	92	99	105	115	127	151	214	823	140	111	1.90
	57 61	123	18	62	79	89	100	110	119	127	146	177	823	120	106	1.62
NEVADA LAS VEGAS	WINTER	19	81	107	151	180	194	207	214	234	254	302	639	222	201	1.56
	SPRING	23	65	76	111	119	127	136	142	148	191	254	469	156	141	1.56
	SUMMER	24	76	90	110	117	127	132	137	144	149	166	171	129	127	1.22
	AUTUMN	25	50	76	107	117	124	137	146	170	197	254	428	159	141	1.64
	57 61	91	50	90	111	121	131	140	149	174	204	248	639	164	147	1.55
NEW HAMPSHIRE MANCHESTER	WINTER	22	32	38	51	64	72	80	87	96	117	139	223	86	78	1.58
	SPRING	21	29	30	32	43	48	56	60	64	70	76	89	54	52	1.41
	SUMMER	16	29	34	36	45	48	54	64	70	83	90	98	60	56	1.47
	AUTUMN	23	25	27	40	43	47	54	58	62	67	76	156	57	52	1.50
	58 61	82	25	31	40	47	53	58	64	71	83	101	223	65	59	1.53
NEW JERSEY ATLANTIC CITY	WINTER	13	44	45	51	54	57	64	67	70	73	90	107	66	64	1.27
	SPRING	13	33	38	54	59	64	76	81	85	90	107	136	76	71	1.46
	SUMMER	13	40	45	57	61	64	72	76	83	90	120	119	76	72	1.42
	AUTUMN	12	25	27	38	54	59	64	76	81	90	99	104	66	61	1.53
	58 61	51	25	45	51	56	61	68	74	81	88	104	136	71	67	1.42
CAMDEN	WINTER	12	54	54	90	133	139	145	151	180	278	302	345	175	155	1.69
	SPRING	14	99	107	139	151	170	180	191	214	254	331	352	198	186	1.43
	SUMMER	12	101	107	127	158	166	173	180	197	234	254	265	181	175	1.34
	AUTUMN	13	84	83	117	127	135	151	158	166	173	254	268	153	145	1.39
	57 60	51	54	99	123	137	149	163	175	197	234	283	352	177	165	1.47
EAST ORANGE	WINTER	12	38	38	45	54	83	90	117	127	180	214	266	116	96	1.93
	SPRING	11	26	25	27	30	32	70	76	107	151	180	196	81	62	2.17
	SUMMER	9	20	23	38	70	76	107	107	139	151	166	159	98	82	2.05
	AUTUMN	8	23	23	27	27	38	64	90	151	151	180	366	113	74	2.66
	57 60	40	20	26	34	45	67	81	107	139	161	180	366	102	78	2.14
ELIZABETH	WINTER	11	51	54	64	99	107	117	122	127	139	151	170	112	106	1.46
	SPRING	12	69	76	90	107	117	127	139	151	180	254	278	140	131	1.48
	SUMMER	13	57	64	90	99	107	120	127	135	143	166	180	117	112	1.37
	AUTUMN	11	19	19	107	127	135	151	166	180	214	254	266	158	135	2.05
	58 60	47	19	70	92	105	115	125	134	146	163	180	278	131	120	1.59
JERSEY CITY	WINTER	19	115	120	133	145	158	173	180	194	207	234	311	176	171	1.29
	SPRING	19	75	90	101	112	122	135	143	166	187	200	214	139	133	1.37
	SUMMER	20	109	117	127	135	143	151	163	174	191	214	278	167	161	1.30
	AUTUMN	18	63	76	107	151	159	168	176	191	203	227	253	164	154	1.48
	57 61	76	63	104	118	132	144	157	170	102	199	214	311	162	154	1.37

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEWARK	WINTER	21	42	47	52	70	83	107	132	141	151	170	196	107	96	1.68
	SPRING	26	33	54	67	76	90	100	117	133	151	170	231	110	100	1.58
	SUMMER	26	52	64	72	81	85	93	104	112	127	151	427	112	100	1.55
	AUTUMN	23	39	45	52	59	70	90	107	127	161	214	278	108	92	1.79
	58 61	96	33	50	62	74	84	96	109	129	149	174	427	110	97	1.63
NEW MEXICO ALBUQUERQUE	WINTER	27	40	114	127	180	197	214	227	247	286	331	1706	265	207	1.91
	SPRING	32	64	99	120	145	158	169	180	197	227	278	492	183	167	1.52
	SUMMER	29	71	85	112	127	157	174	189	214	278	382	646	203	175	1.71
	AUTUMN	31	[illegible]	90	114	139	185	204	234	286	321	349	409	212	187	1.71
	57 61	119	40	93	119	146	169	189	205	232	278	346	1706	214	183	1.71
NEW YORK ALBANY	WINTER	12	23	23	34	37	38	45	50	54	64	90	91	50	47	1.47
	SPRING	11	25	27	30	32	38	45	54	59	64	76	86	47	44	1.48
	SUMMER	12	41	45	68	76	83	90	96	101	114	120	121	88	85	1.36
	AUTUMN	13	24	27	45	50	54	64	76	90	99	127	136	72	65	1.64
	60 61	48	23	32	38	43	50	59	69	82	93	107	136	65	59	1.60
BINGHAMTON	WINTER	23	40	45	64	76	90	100	107	117	127	151	188	99	91	1.56
	SPRING	25	36	59	76	90	99	112	122	134	141	151	224	110	102	1.51
	SUMMER	27	40	50	54	67	71	75	78	85	94	103	120	76	74	1.30
	AUTUMN	26	34	46	50	54	67	73	79	84	96	107	141	76	72	1.42
	57 61	101	34	48	57	68	75	84	93	104	120	139	224	90	83	1.48
BUFFALO	WINTER	15	38	45	54	61	64	83	90	107	127	180	192	89	80	1.61
	SPRING	19	42	57	62	76	99	107	127	151	170	214	283	126	110	1.71
	SUMMER	19	53	76	90	96	101	107	112	122	135	151	204	112	107	1.36
	AUTUMN	20	59	64	76	90	110	117	124	151	166	180	244	124	114	1.51
	59 61	73	38	56	66	83	95	106	117	130	154	180	283	114	103	1.57
ELMIRA	WINTER	18	42	45	54	57	62	70	81	90	99	117	182	77	72	1.46
	SPRING	20	24	45	49	52	59	70	81	90	107	127	175	79	71	1.61
	SUMMER	18	17	27	57	59	64	70	76	99	103	117	227	82	71	1.78
	AUTUMN	20	19	45	57	64	72	81	90	97	104	135	146	82	75	1.59
	59 61	76	17	45	52	59	64	73	84	94	104	124	227	80	72	1.60
GLEN COVE	WINTER	18	26	32	50	54	70	94	103	151	166	214	327	119	92	2.12
	SPRING	19	31	50	64	76	82	87	90	117	151	214	247	108	94	1.72
	SUMMER	15	22	27	59	68	72	83	90	127	151	214	305	106	85	2.03
	AUTUMN	17	39	45	59	68	76	99	107	151	191	203	268	117	100	1.80
	59 61	69	22	43	57	68	76	88	101	127	173	209	327	113	93	1.89
MASSENA	WINTER	16	21	22	23	27	32	36	42	45	64	81	85	43	38	1.62
	SPRING	19	25	30	35	39	42	45	54	64	76	96	107	56	51	1.57
	SUMMER	15	29	32	40	43	45	50	52	64	70	107	129	57	52	1.53
	AUTUMN	20	17	23	30	40	43	47	50	54	59	64	114	48	44	1.55
	59 61	70	17	26	31	38	41	45	50	57	66	87	129	51	46	1.58
MT VERNON	WINTER	6	57	64	64	76	76	107	127	127	139	139	139	100	95	1.45
	SPRING	6	41	45	45	64	64	70	76	76	107	107	119	74	71	1.44
	SUMMER	6	115	114	114	120	120	127	166	166	180	180	189	148	145	1.24
	AUTUMN	7	43	42	42	45	76	90	90	127	180	180	230	106	90	1.87
	61 61	25	41	45	64	73	90	110	117	127	151	180	230	107	96	1.62
NEW ROCHELLE	WINTER	18	46	57	64	76	99	117	139	197	214	331	520	159	127	1.95
	SPRING	20	36	50	57	64	83	93	100	107	120	139	328	101	89	1.61
	SUMMER	19	51	50	54	64	90	101	107	135	151	197	518	125	103	1.80
	AUTUMN	16	38	54	59	76	90	107	151	158	173	180	242	121	106	1.73
	59 61	73	36	51	59	72	90	101	117	138	163	214	520	126	105	1.78
NEW YORK	WINTER	33	116	122	141	155	166	180	206	227	247	321	389	203	191	1.41
	SPRING	33	90	97	117	133	142	155	168	180	214	302	365	176	162	1.48
	SUMMER	31	73	96	127	137	148	173	190	204	224	254	532	182	166	1.52
	AUTUMN	30	79	87	107	127	141	157	174	203	230	254	330	168	156	1.48
	57 61	127	73	100	123	138	150	166	180	206	235	281	532	182	169	1.48

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NIAGARA FALLS	WINTER	6	80	83	83	90	90	107	180	180	214	214	259	145	132	1.61
	SPRING	7	75	76	76	107	151	180	180	214	359	359	429	203	173	1.84
	SUMMER	4	145	1	151	151	180	180	180	214	214	302	294	196	188	1.37
	AUTUMN	6	62	64	64	117	117	127	135	135	143	143	140	117	113	1.36
	59 59	23	62	76	99	117	132	146	161	180	203	302	429	164	146	1.61
ROCHESTER	WINTER	23	53	64	76	81	85	99	114	127	139	180	195	109	102	1.45
	SPRING	26	66	76	85	101	127	156	170	180	200	214	313	149	137	1.53
	SUMMER	27	70	78	83	90	110	120	127	137	148	166	241	123	117	1.36
	AUTUMN	25	52	64	83	97	104	115	123	139	151	254	273	128	116	1.59
	58 61	101	52	71	81	89	103	118	131	145	168	206	313	128	118	1.49
SCHENECTADY	WINTER	16	22	32	42	54	56	60	64	68	76	90	120	63	58	1.52
	SPRING	19	40	47	50	54	58	62	64	80	87	99	126	69	66	1.34
	SUMMER	18	37	40	43	45	57	62	70	83	90	107	115	67	63	1.44
	AUTUMN	16	20	38	42	50	54	70	83	90	101	107	207	78	67	1.76
	57 60	69	20	40	45	52	57	62	69	79	90	105	207	69	64	1.51
SYRACUSE	WINTER	24	35	42	59	66	70	73	76	107	139	180	202	94	83	1.64
	SPRING	26	65	76	94	107	139	161	175	191	234	278	312	164	149	1.58
	SUMMER	26	63	68	76	103	114	132	146	158	180	194	213	130	122	1.47
	AUTUMN	27	40	68	76	93	104	117	127	139	151	170	347	124	113	1.56
	57 61	103	35	64	72	87	101	120	138	155	174	207	347	129	115	1.63
TROY	WINTER	17	31	38	54	61	70	78	81	85	90	107	133	76	71	1.47
	SPRING	19	35	36	45	64	70	76	79	84	90	107	114	74	70	1.45
	SUMMER	15	40	45	50	64	68	76	79	84	87	107	116	72	69	1.36
	AUTUMN	17	36	38	50	57	64	83	90	99	107	127	245	92	80	1.68
	59 61	68	31	38	52	60	68	76	81	87	94	111	245	79	73	1.49
UTICA	WINTER	24	35	38	43	54	62	66	71	81	90	127	228	78	69	1.64
	SPRING	25	27	56	60	68	76	101	112	127	151	214	373	114	97	1.76
	SUMMER	24	44	54	76	83	94	103	117	139	151	214	333	120	107	1.60
	AUTUMN	26	41	57	62	76	85	97	107	120	157	168	223	106	97	1.53
	57 61	99	27	47	59	67	77	90	101	117	144	177	373	105	91	1.67
NORTH CAROLINA ASHEVILLE	WINTER	13	45	45	43	87	90	107	117	127	139	180	212	111	103	1.50
	SPRING	12	64	64	70	107	117	127	133	139	151	214	222	125	116	1.52
	SUMMER	14	45	45	51	54	68	72	76	90	107	127	131	79	74	1.44
	AUTUMN	12	52	50	54	72	76	83	90	107	127	180	186	97	90	1.49
	58 60	51	45	50	66	73	81	93	110	122	137	166	222	102	94	1.52
CHARLOTTE	WINTER	33	66	90	114	124	156	175	197	220	237	316	350	180	166	1.52
	SPRING	32	54	78	85	101	111	118	125	132	143	151	234	118	113	1.35
	SUMMER	31	43	54	62	67	71	76	81	87	96	114	132	79	76	1.32
	AUTUMN	32	49	64	80	88	97	107	139	157	180	206	365	131	118	1.58
	57 61	128	43	65	78	85	97	112	126	146	173	218	365	128	114	1.59
GREENSBORO	WINTER	13	42	45	54	57	61	68	72	76	83	107	126	70	67	1.36
	SPRING	14	37	38	48	51	70	76	80	87	90	151	156	78	72	1.53
	SUMMER	10	28	32	34	36	38	54	59	64	70	76	83	53	49	1.47
	AUTUMN	11	41	45	57	59	62	75	83	90	107	127	133	78	74	1.40
	58 61	48	28	38	48	54	60	66	73	81	87	107	156	71	66	1.47
RALEIGH	WINTER	12	52	50	54	83	90	93	97	100	107	151	156	92	87	1.41
	SPRING	13	44	45	54	57	61	67	70	73	76	101	96	70	68	1.27
	SUMMER	11	37	35	38	45	50	57	61	64	70	76	85	57	55	1.30
	AUTUMN	13	39	45	54	59	64	76	90	96	101	127	128	78	74	1.41
	59 61	49	37	45	51	56	62	69	75	90	98	105	156	75	71	1.40
WINSTON SALEM	WINTER	12	56	64	96	107	127	139	151	197	254	278	298	161	145	1.63
	SPRING	14	62	64	90	94	103	107	127	166	180	254	306	139	125	1.59
	SUMMER	14	28	32	76	80	87	90	94	103	107	127	135	91	86	1.45
	AUTUMN	11	37	38	59	64	70	90	107	127	151	166	162	97	88	1.58
	57 60	51	28	60	73	85	94	103	115	137	166	214	306	122	108	1.63

TABLE 2.8 — SUSPENDED PARTICULATE MATTER URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location Region State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NORTH DAKOTA BISMARCK	WINTER	28	18	25	39	42	47	52	58	64	76	107	167	62	54	1.72
	SPRING	32	29	45	61	76	87	99	112	127	180	234	324	115	98	1.79
	SUMMER	32	52	67	73	82	90	103	111	118	127	151	187	104	100	1.35
	AUTUMN	34	19	23	50	59	71	79	87	103	127	151	216	88	75	1.84
	57 61	126	18	40	51	63	72	82	95	111	129	159	324	93	80	1.77
OHIO AKRON	WINTER	16	41	64	80	87	90	99	107	127	151	180	431	128	110	1.69
	SPRING	21	55	64	90	101	117	139	151	170	214	302	330	155	137	1.65
	SUMMER	20	55	90	101	117	132	141	151	163	174	191	210	140	134	1.38
	AUTUMN	19	44	54	76	96	107	151	161	180	214	241	294	146	127	1.78
	58 61	76	41	64	86	98	107	131	147	163	185	224	431	143	128	1.63
CANTON	WINTER	19	81	114	127	143	158	173	180	194	207	254	317	173	164	1.40
	SPRING	21	117	127	151	180	197	224	244	264	283	302	323	219	209	1.36
	SUMMER	19	70	114	127	134	141	148	151	166	180	227	252	154	149	1.34
	AUTUMN	19	81	107	120	135	151	180	187	200	214	241	290	172	164	1.39
	57 61	78	70	114	129	140	153	173	191	209	232	268	323	180	171	1.40
CINCINNATI	WINTER	30	100	109	116	123	132	146	159	172	187	207	336	155	148	1.32
	SPRING	28	58	78	85	90	90	107	133	142	148	180	218	122	115	1.40
	SUMMER	33	72	93	107	113	119	127	134	141	149	160	237	132	128	1.29
	AUTUMN	31	42	64	76	87	99	117	135	158	180	214	319	135	120	1.63
	57 61	122	42	80	94	107	117	127	138	149	171	200	336	136	128	1.44
CLEVELAND	WINTER	33	70	85	113	121	139	166	180	195	209	244	314	164	153	1.46
	SPRING	32	56	94	107	123	143	159	172	191	254	302	445	175	158	1.57
	SUMMER	32	69	76	99	119	135	157	174	197	227	247	299	164	151	1.52
	AUTUMN	29	62	83	113	121	139	180	190	204	224	254	336	171	158	1.52
	57 61	126	56	87	110	120	137	161	180	199	224	254	445	168	155	1.51
COLUMBUS	WINTER	31	37	64	93	104	114	127	141	166	203	234	374	143	127	1.66
	SPRING	32	56	78	85	101	117	130	138	146	170	214	241	130	123	1.42
	SUMMER	30	69	83	99	111	117	123	131	143	158	180	248	131	125	1.36
	AUTUMN	34	50	70	99	117	137	151	162	176	197	241	310	153	140	1.56
	57 61	127	37	79	91	109	120	131	142	158	180	221	374	140	129	1.51
DAYTON	WINTER	22	60	67	73	85	93	99	104	112	127	180	204	107	101	1.40
	SPRING	23	41	50	76	96	107	122	133	145	158	180	215	117	107	1.58
	SUMMER	27	64	83	96	110	117	125	130	138	146	151	207	123	119	1.30
	AUTUMN	26	42	72	80	90	97	107	145	161	197	227	327	139	124	1.64
	58 61	98	41	68	82	93	103	115	127	140	154	186	327	122	113	1.49
HAMILTON	WINTER	13	42	45	81	85	90	107	127	151	180	214	239	121	109	1.61
	SPRING	12	43	45	50	64	117	127	139	151	197	214	217	123	107	1.81
	SUMMER	14	43	45	67	70	76	94	99	107	117	151	180	94	89	1.41
	AUTUMN	13	65	70	90	99	107	120	127	161	170	214	265	132	122	1.50
	59 61	52	42	54	69	83	96	107	120	139	170	200	265	117	106	1.58
LORAIN	WINTER	12	37	38	45	83	90	107	117	127	180	254	343	127	103	1.96
	SPRING	13	75	76	112	117	122	139	151	180	197	254	417	165	149	1.57
	SUMMER	13	68	76	107	114	120	180	191	203	214	278	294	164	149	1.58
	AUTUMN	14	55	57	64	76	99	107	127	151	214	302	398	145	119	1.88
	57 60	52	37	62	79	99	113	123	141	180	214	270	417	151	129	1.76
SPRINGFIELD	WINTER	13	46	48	54	76	90	107	127	139	151	254	264	118	102	1.76
	SPRING	13	39	45	64	90	114	127	135	143	151	170	169	116	107	1.57
	SUMMER	11	60	64	90	96	101	112	117	122	127	139	151	111	108	1.30
	AUTUMN	13	66	70	90	112	117	127	135	143	151	214	255	133	124	1.49
	58 60	50	39	57	76	93	109	117	125	137	149	180	264	120	110	1.54
TOLEDO	WINTER	12	52	54	64	76	83	90	117	127	180	197	206	113	102	1.59
	SPRING	14	48	54	70	76	107	127	133	145	151	170	170	115	106	1.53
	SUMMER	11	55	57	59	62	64	90	107	127	151	180	290	108	95	1.67
	AUTUMN	13	55	64	81	85	90	114	120	127	151	180	311	122	110	1.57
	57 59	50	48	58	66	76	86	107	121	137	155	176	311	115	104	1.57
YOUNGSTOWN	WINTER	30	76	85	107	127	141	157	174	194	214	254	371	166	154	1.48
	SPRING	35	59	90	107	120	130	140	148	163	176	234	391	148	137	1.48
	SUMMER	31	63	72	81	88	94	103	111	123	139	197	292	118	110	1.43
	AUTUMN	34	58	64	99	117	139	161	191	230	254	302	406	179	157	1.71
	57 61	130	58	77	92	107	121	136	150	174	208	254	406	153	138	1.56

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
				Frequency Distribution—Percent												
			Min	10	20	30	40	50	60	70	80	90	Max	Arith Mean	Geo Mean	
OKLAHOMA																
OKLAHOMA CITY	WINTER	17	44	50	54	64	68	72	74	83	94	99	100	72	70	1.28
	SPRING	17	38	45	54	69	74	80	83	90	99	103	128	78	75	1.38
	SUMMER	20	56	61	66	71	76	85	93	100	107	120	173	91	87	1.32
	AUTUMN	19	45	59	68	76	79	82	84	87	90	99	107	81	79	1.24
	58 61	73	38	54	65	69	73	79	85	90	97	105	173	81	78	1.31
TULSA	WINTER	14	40	40	45	50	57	61	64	70	73	90	110	63	61	1.34
	SPRING	20	22	23	45	64	68	72	76	85	99	117	268	79	68	1.77
	SUMMER	13	40	40	45	54	64	81	85	90	107	139	148	81	75	1.54
	AUTUMN	17	20	42	45	49	52	64	70	81	90	127	146	71	64	1.62
	57 61	64	20	40	45	51	61	68	73	82	90	123	268	74	66	1.59
OREGON																
EUGENE	WINTER	4	35	1	38	38	76	76	76	83	83	90	87	69	65	1.52
	SPRING	7	40	42	42	45	54	59	59	64	107	107	136	70	63	1.58
	SUMMER	6	69	76	76	83	83	90	127	127	166	166	158	112	107	1.43
	AUTUMN	5	23	23	23	54	54	107	107	151	151	180	157	96	77	2.26
	61 61	22	23	38	45	59	70	80	87	99	139	161	158	87	77	1.71
MEDFORD	WINTER	5	53	54	54	90	90	180	180	234	234	254	249	159	135	1.97
	SPRING	6	45	45	45	90	90	107	117	117	127	127	146	102	95	1.52
	SUMMER	6	59	64	64	83	83	90	107	107	127	127	202	108	100	1.54
	AUTUMN	5	51	54	54	90	90	127	127	180	180	254	231	129	113	1.81
	61 61	22	45	50	64	84	90	107	117	127	180	227	249	123	109	1.66
PORTLAND	WINTER	33	26	32	44	54	70	90	97	105	143	191	334	99	81	1.88
	SPRING	31	21	27	32	37	58	66	74	90	103	120	175	71	61	1.80
	SUMMER	32	41	45	52	57	59	62	64	71	85	101	145	69	66	1.35
	AUTUMN	31	26	38	54	76	101	117	127	145	180	206	315	120	103	1.81
	57 61	127	21	35	46	56	63	73	90	103	125	163	334	89	76	1.78
PENNSYLVANIA																
ALLENTOWN	WINTER	13	42	45	54	81	85	99	107	151	180	254	261	119	101	1.83
	SPRING	12	73	76	90	127	135	143	151	161	180	254	298	148	138	1.50
	SUMMER	13	91	96	107	112	117	127	139	151	158	173	174	131	125	1.24
	AUTUMN	13	60	64	72	76	90	107	127	135	143	234	230	117	107	1.56
	59 61	51	42	67	82	94	105	124	138	151	169	224	298	129	117	1.56
BETHLEHEM	WINTER	5	84	90	90	99	99	107	107	151	151	180	159	114	110	1.33
	SPRING	7	105	107	107	114	120	127	127	180	214	214	254	154	146	1.41
	SUMMER	7	113	114	114	120	127	139	139	151	180	180	193	144	142	1.22
	AUTUMN	6	112	127	127	151	151	166	180	180	214	214	225	167	163	1.28
	61 61	25	84	101	110	118	124	139	151	168	180	214	254	146	141	1.33
ERIE	WINTER	5	41	45	45	64	64	127	127	166	166	180	163	104	91	1.86
	SPRING	7	57	64	64	90	99	107	107	117	127	127	197	108	102	1.44
	SUMMER	6	74	76	76	90	90	96	101	101	107	107	126	99	97	1.19
	AUTUMN	4	80	1	90	90	107	107	107	156	166	180	174	127	121	1.45
	61 61	22	41	59	76	90	96	101	107	117	159	173	177	108	101	1.47
HARRISBURG	WINTER	11	50	48	51	54	76	107	151	197	214	234	234	129	109	1.85
	SPRING	11	62	64	76	78	81	85	88	90	151	214	227	108	98	1.54
	SUMMER	15	55	64	80	87	90	96	99	104	107	151	170	98	94	1.33
	AUTUMN	13	46	48	54	64	96	107	127	139	151	254	292	123	104	1.83
	58 60	50	46	52	64	80	87	95	102	127	151	214	292	113	101	1.62
JOHNSTOWN	WINTER	8	105	99	107	107	117	127	166	180	180	359	395	190	167	1.68
	SPRING	14	77	90	135	143	166	180	214	286	302	427	451	227	202	1.66
	SUMMER	10	65	76	96	101	107	117	127	166	180	214	241	137	129	1.45
	AUTUMN	12	70	76	96	107	114	120	127	151	214	254	452	161	141	1.67
	59 61	44	65	92	103	112	125	145	163	191	254	359	452	182	160	1.65
PHILADELPHIA	WINTER	32	70	85	112	130	141	151	214	231	254	302	411	186	168	1.60
	SPRING	30	54	90	115	122	139	161	175	197	222	246	345	169	156	1.51
	SUMMER	29	61	90	110	118	127	139	147	166	187	207	270	146	138	1.41
	AUTUMN	32	72	107	151	168	180	193	206	227	286	325	349	204	190	1.49
	57 61	123	54	90	116	128	145	166	185	207	234	288	411	177	163	1.52

TABLE 2.4 -- SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PITTSBURGH	WINTER	30	66	81	88	101	117	131	143	161	227	427	977	195	151	1.89
	SPRING	33	61	96	127	139	151	180	197	214	270	393	692	211	183	1.70
	SUMMER	31	85	99	114	135	154	167	177	214	302	359	449	198	179	1.57
	AUTUMN	29	43	70	83	94	107	133	145	163	180	234	534	147	128	1.67
	57 61	123	43	82	99	116	135	151	168	190	236	359	977	189	160	1.73
READING	WINTER	11	58	64	76	90	96	107	117	127	214	254	295	134	118	1.66
	SPRING	13	56	64	81	85	90	107	117	127	166	197	200	118	110	1.47
	SUMMER	14	69	70	83	90	99	103	107	120	127	151	156	106	104	1.27
	AUTUMN	12	34	38	54	127	161	170	180	191	214	302	404	171	141	2.03
	58 60	50	34	67	80	90	99	110	122	156	180	208	404	131	117	1.62
SCRANTON	WINTER	20	67	76	161	180	191	203	214	254	286	331	537	222	199	1.64
	SPRING	20	79	90	101	112	122	151	180	214	270	302	374	177	157	1.63
	SUMMER	19	49	54	68	76	85	99	107	127	151	170	200	109	100	1.53
	AUTUMN	19	50	76	114	127	161	180	214	278	359	454	492	226	187	1.93
	57 61	78	49	72	90	109	127	162	183	211	266	331	537	184	156	1.79
WILKES BARRE	WINTER	12	39	45	54	76	107	114	120	127	214	254	260	125	107	1.84
	SPRING	14	47	50	64	80	87	90	127	143	151	197	203	114	102	1.64
	SUMMER	14	43	45	70	76	85	90	96	107	114	127	134	92	88	1.35
	AUTUMN	11	23	23	45	64	83	107	127	139	151	234	222	111	92	1.99
	58 60	51	23	48	62	78	85	100	115	127	147	203	260	110	97	1.68
YORK	WINTER	12	28	32	90	127	180	197	214	254	302	359	408	200	165	2.08
	SPRING	13	60	64	114	120	127	151	161	170	180	214	284	148	137	1.53
	SUMMER	13	50	54	81	85	90	117	127	133	139	151	202	112	105	1.43
	AUTUMN	13	60	64	81	85	90	99	103	107	127	214	360	122	108	1.61
	59 61	51	28	68	82	93	110	125	143	168	197	270	408	144	126	1.70
PUERTO RICO SAN JUAN	WINTER	20	53	54	57	61	64	70	76	83	90	107	179	80	76	1.37
	SPRING	23	56	58	64	69	74	80	84	88	96	114	122	81	79	1.26
	SUMMER	24	45	46	50	53	58	62	76	84	90	120	131	73	70	1.36
	AUTUMN	25	54	61	65	69	71	75	78	85	90	12	209	85	80	1.37
	57 61	92	45	52	58	63	68	74	79	85	94	116	209	80	76	1.34
RHODE ISLAND PROVIDENCE	WINTER	33	43	64	78	85	92	101	107	151	168	203	253	119	109	1.53
	SPRING	29	33	54	82	90	116	124	133	151	173	214	294	132	115	1.66
	SUMMER	33	57	64	69	73	80	92	97	102	107	145	182	94	90	1.34
	AUTUMN	31	35	54	59	64	76	90	107	119	133	151	204	96	88	1.55
	57 61	126	33	59	69	79	88	98	110	126	149	180	294	110	100	1.54
SOUTH CAROLINA CHARLESTON	WINTER	13	42	45	54	67	70	76	90	96	101	127	171	85	79	1.49
	SPRING	11	35	38	47	49	50	54	59	64	76	107	233	72	62	1.67
	SUMMER	13	37	34	38	42	45	50	52	54	59	76	79	51	50	1.28
	AUTUMN	12	39	40	43	57	61	64	76	90	117	127	137	77	71	1.56
	59 61	49	35	39	45	49	53	60	66	74	93	114	233	71	64	1.54
COLUMBIA	WINTER	20	76	80	87	93	99	104	117	135	151	170	274	121	115	1.38
	SPRING	26	11	45	70	82	87	97	107	114	124	151	226	100	85	1.82
	SUMMER	26	55	64	72	82	87	95	102	107	122	133	147	97	94	1.29
	AUTUMN	23	55	64	90	97	104	113	118	124	137	180	263	119	112	1.44
	57 61	95	11	66	79	87	94	102	109	120	132	161	274	108	100	1.53
GREENVILLE	WINTER	11	53	54	83	90	99	117	127	180	214	254	285	141	125	1.68
	SPRING	14	55	57	64	76	94	99	103	117	127	214	216	109	100	1.54
	SUMMER	13	56	57	62	64	68	76	81	85	90	107	142	80	78	1.28
	AUTUMN	13	39	45	90	133	139	151	158	166	173	254	285	146	131	1.68
	57 60	51	39	58	66	78	88	101	117	141	166	214	285	118	105	1.61
SOUTH DAKOTA SIOUX FALLS	WINTER	30	25	27	42	54	66	71	76	87	101	127	169	74	66	1.68
	SPRING	32	27	38	54	80	90	113	121	139	203	270	358	128	105	1.95
	SUMMER	31	47	50	54	64	71	80	85	90	99	107	152	81	78	1.36
	AUTUMN	32	20	32	55	60	64	80	90	107	158	180	193	94	80	1.80
	57 61	125	20	41	53	63	72	81	89	106	127	176	358	95	81	1.75

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TENNESSEE																
CHATTANOOGA	WINTER	24	85	96	127	143	180	197	214	254	286	393	426	211	190	1.60
	SPRING	27	94	117	127	166	185	199	209	241	273	292	365	204	192	1.43
	SUMMER	24	57	90	132	141	156	166	175	214	241	286	345	178	166	1.49
	AUTUMN	26	69	127	151	168	180	214	234	247	302	308	532	242	213	1.66
	58 61	101	57	107	134	154	171	193	214	241	272	340	532	209	190	1.55
KNOXVILLE	WINTER	19	55	64	107	115	123	139	151	222	238	254	302	161	142	1.68
	SPRING	19	67	76	83	90	107	120	127	143	161	180	224	125	117	1.44
	SUMMER	19	28	68	76	83	90	97	100	107	120	139	159	98	92	1.46
	AUTUMN	18	63	90	107	111	119	127	151	166	173	197	306	141	132	1.46
	57 61	75	28	74	84	97	108	118	127	148	170	231	306	131	119	1.55
MEMPHIS	WINTER	17	45	54	57	64	76	83	87	99	114	120	204	88	82	1.47
	SPRING	20	45	45	64	72	83	94	103	112	122	139	155	95	89	1.46
	SUMMER	21	62	67	73	78	82	88	96	107	139	151	163	100	96	1.34
	AUTUMN	18	73	78	83	85	90	101	112	122	127	151	234	114	109	1.37
	58 61	76	45	60	70	78	83	89	100	111	125	145	234	99	93	1.42
NASHVILLE	WINTER	31	47	70	90	100	114	135	147	166	191	278	318	145	130	1.62
	SPRING	33	62	78	84	88	110	121	132	146	187	214	456	146	128	1.62
	SUMMER	32	48	76	87	96	101	107	117	127	166	197	255	123	115	1.43
	AUTUMN	33	45	72	96	111	123	135	143	[illegible]	173	302	362	149	133	1.60
	57 61	129	45	76	87	99	111	123	136	150	178	234	456	141	127	1.57
TEXAS																
AUSTIN	WINTER	13	10	11	45	50	54	90	107	117	127	180	181	88	68	2.40
	SPRING	14	55	59	70	76	101	107	112	122	127	151	155	102	98	1.37
	SUMMER	13	48	54	58	60	62	66	68	70	72	76	79	65	64	1.15
	AUTUMN	12	48	54	57	64	70	76	83	90	127	139	142	86	81	1.40
	58 61	52	10	50	57	63	68	74	87	104	121	141	181	86	77	1.67
BEAUMONT	WINTER	10	23	23	38	45	57	61	64	90	99	107	121	67	60	1.67
	SPRING	12	33	38	54	64	70	76	81	85	99	107	115	74	71	1.41
	SUMMER	12	32	32	42	64	68	72	76	81	90	99	100	69	65	1.44
	AUTUMN	13	41	42	50	54	59	70	76	94	99	107	190	79	72	1.55
	59 61	47	23	39	45	57	63	71	78	88	97	104	190	73	67	1.50
CORPUS CHRISTI	WINTER	19	28	38	47	52	56	60	62	70	83	107	129	65	61	1.48
	SPRING	21	29	39	42	44	47	54	61	70	83	117	173	66	60	1.52
	SUMMER	19	36	40	45	51	56	60	62	68	76	83	87	60	59	1.30
	AUTUMN	18	43	48	54	57	62	66	71	76	83	107	236	77	71	1.48
	57 61	77	28	41	45	50	55	60	64	72	82	99	236	67	62	1.45
DALLAS	WINTER	16	46	54	76	94	99	107	139	151	166	173	182	117	109	1.51
	SPRING	27	37	45	67	76	87	107	120	143	170	214	243	118	103	1.71
	SUMMER	21	60	61	68	76	83	99	112	122	151	170	196	105	100	1.41
	AUTUMN	26	18	32	50	68	76	90	100	107	122	135	170	88	77	1.76
	57 61	90	18	50	66	76	87	98	110	125	148	172	243	106	95	1.64
EL PASO	WINTER	19	67	90	101	127	161	180	197	254	302	359	373	198	174	1.71
	SPRING	20	65	94	103	114	127	151	180	203	254	359	613	195	166	1.73
	SUMMER	19	49	64	99	110	117	124	127	143	161	180	229	126	119	1.44
	AUTUMN	20	11	59	90	112	122	161	180	214	254	302	348	168	136	2.20
	57 61	78	11	81	100	111	123	147	169	197	238	313	613	172	147	1.81
FT WORTH	WINTER	19	61	67	73	81	90	99	103	112	122	139	153	98	95	1.30
	SPRING	20	47	54	72	79	84	90	107	120	151	170	184	104	98	1.45
	SUMMER	19	31	35	48	54	57	61	62	70	80	87	107	63	60	1.39
	AUTUMN	20	28	59	67	73	78	83	88	93	100	107	151	85	80	1.42
	58 61	78	28	52	62	69	76	82	88	99	110	137	184	88	82	1.46
GALVESTON	WINTER	11	28	29	30	32	40	45	54	68	72	76	125	54	49	1.56
	SPRING	14	26	30	40	43	50	54	59	68	72	99	102	57	54	1.47
	SUMMER	11	23	23	25	27	32	36	38	45	64	70	67	40	37	1.46
	AUTUMN	13	32	32	38	42	45	59	64	70	76	101	104	60	55	1.51
	59 61	49	23	28	32	38	42	47	56	65	71	93	125	53	49	1.53

TABLE 2.4 — SUSPENDED PARTICULATE MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
HOUSTON	WINTER	31	38	57	62	76	84	111	123	143	189	214	255	120	107	1.64
	SPRING	32	26	64	79	90	97	105	120	137	158	180	385	128	110	1.70
	SUMMER	30	24	67	76	81	87	94	107	122	143	189	198	108	99	1.55
	AUTUMN	32	14	54	64	90	103	113	121	131	147	170	252	112	101	1.69
	57 61	125	14	59	72	83	92	106	119	134	151	195	385	117	104	1.64
SAN ANTONIO	WINTER	30	24	48	59	76	101	117	135	158	180	214	630	151	113	2.08
	SPRING	29	52	70	85	101	113	121	127	141	158	180	318	129	120	1.49
	SUMMER	32	46	57	64	74	82	90	107	122	141	166	296	107	97	1.54
	AUTUMN	27	28	51	59	76	90	100	107	122	143	166	309	107	95	1.66
	57 61	118	24	54	67	80	94	108	121	136	153	186	630	124	106	1.71
TEXAS CITY	WINTER	11	30	32	35	38	50	59	64	76	107	127	196	73	62	1.77
	SPRING	13	45	45	57	61	64	76	83	90	99	166	170	84	78	1.49
	SUMMER	11	41	45	54	64	81	90	96	101	107	127	135	87	82	1.45
	AUTUMN	11	26	27	35	38	50	64	76	83	90	139	140	69	60	1.71
	59 61	46	26	37	46	54	60	70	82	90	104	135	196	78	70	1.61
WACO	WINTER	19	10	13	50	57	64	76	96	107	151	254	313	104	76	2.42
	SPRING	19	39	45	54	66	71	76	83	94	103	139	189	87	80	1.51
	SUMMER	18	58	59	64	68	76	83	90	99	103	117	134	86	83	1.29
	AUTUMN	20	38	45	54	64	70	76	94	103	114	127	138	85	79	1.50
	58 61	76	10	46	56	64	70	78	92	100	114	139	313	90	79	1.71
UTAH SALT LAKE CITY	WINTER	26	47	64	81	127	151	163	176	191	234	278	333	164	144	1.74
	SPRING	29	45	54	60	78	84	90	101	120	139	161	407	108	95	1.62
	SUMMER	35	55	72	79	84	87	94	101	110	120	139	157	99	96	1.28
	AUTUMN	29	36	64	82	90	103	117	127	145	170	214	333	128	114	1.64
	57 61	119	36	60	78	84	91	105	120	139	161	200	407	122	109	1.60
VERMONT BURLINGTON	WINTER	32	19	23	30	36	42	46	51	59	80	90	122	53	47	1.62
	SPRING	29	28	30	38	48	59	67	71	76	90	100	156	67	61	1.56
	SUMMER	34	32	38	42	45	50	53	57	63	68	76	91	56	54	1.30
	AUTUMN	32	22	23	30	35	37	40	44	50	61	83	107	47	43	1.52
	57 61	127	19	29	34	39	44	50	55	65	75	88	156	55	51	1.53
VIRGINIA DANVILLE	WINTER	6	48	54	54	76	76	90	117	117	127	127	247	115	100	1.75
	SPRING	7	41	45	45	54	76	90	90	99	107	107	160	88	80	1.61
	SUMMER	7	52	54	54	57	61	64	64	76	83	83	86	67	66	1.19
	AUTUMN	5	47	54	54	64	64	90	90	107	107	151	137	87	81	1.51
	60 60	25	41	50	54	62	68	79	84	96	107	151	247	88	80	1.53
HAMPTON	WINTER	19	34	35	38	43	48	54	59	70	81	90	121	61	56	1.47
	SPRING	19	27	32	38	45	59	76	80	87	99	114	116	70	63	1.60
	SUMMER	18	37	40	45	54	64	70	76	99	107	151	162	81	73	1.58
	AUTUMN	21	19	38	54	57	60	64	76	80	84	88	106	66	62	1.48
	58 61	77	19	36	41	50	58	64	73	82	89	110	162	69	63	1.53
NORFOLK	WINTER	31	56	70	81	94	107	127	141	158	180	206	270	131	121	1.51
	SPRING	31	42	54	71	83	95	105	115	127	145	166	187	109	102	1.46
	SUMMER	34	39	54	66	74	80	84	89	109	116	125	250	91	85	1.42
	AUTUMN	31	43	49	54	70	79	90	97	105	117	133	148	89	84	1.43
	57 61	127	39	56	69	78	87	98	108	120	136	162	270	104	96	1.49
PORTSMOUTH	WINTER	7	58	64	64	76	107	117	117	127	151	151	156	106	101	1.41
	SPRING	6	60	64	64	76	76	90	99	99	107	107	127	90	88	1.30
	SUMMER	5	53	54	54	70	70	76	90	90	107	107	108	80	78	1.29
	AUTUMN	5	47	54	54	64	64	83	83	90	90	180	159	86	78	1.61
	61 61	24	47	54	64	70	80	87	94	107	117	151	159	91	87	1.39
RICHMOND	WINTER	19	64	66	71	76	97	104	107	139	151	180	232	115	108	1.46
	SPRING	19	59	59	64	76	93	99	101	107	151	180	213	108	99	1.52
	SUMMER	19	26	32	45	48	51	54	67	73	81	90	115	61	57	1.49
	AUTUMN	19	39	45	54	66	70	74	76	99	117	151	164	86	77	1.50
	57 61	76	26	47	56	66	71	79	95	103	131	161	232	93	83	1.59

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ROANOKE	WINTER	5	53	55	55	65	77	83	90	108	125	187	257	119	97	2.50
	SPRING	8	42	45	60	69	117	122	126	132	160	182	198	118	108	1.66
	SUMMER	6	56	57	57	58	61	70	79	86	90	95	101	73	71	1.28
	AUTUMN	4	77	78	78	84	88	92	98	98	150	210	343	151	122	2.00
	59	23	42	54	64	78	83	90	101	114	127	214	343	112	98	1.67
WASHINGTON																
SEATTLE	WINTER	26	35	50	57	64	70	83	120	133	151	180	446	120	96	1.90
	SPRING	25	40	49	52	61	66	74	79	87	99	151	183	80	74	1.48
	SUMMER	26	32	40	45	57	60	64	81	90	112	122	135	77	71	1.53
	AUTUMN	25	41	47	50	67	73	85	93	101	107	127	167	85	79	1.45
	57 61	102	32	45	52	60	67	75	86	100	120	145	446	90	79	1.62
SPOKANE	WINTER	13	52	50	64	76	96	107	135	143	151	214	251	117	105	1.64
	SPRING	12	46	54	59	76	83	90	127	135	151	180	294	115	101	1.68
	SUMMER	14	31	32	54	64	76	83	90	117	127	180	196	95	83	1.75
	AUTUMN	12	65	70	76	120	127	161	170	180	214	254	299	161	147	1.59
	60 61	51	31	52	64	74	90	114	131	151	172	206	299	121	106	1.72
TACOMA	WINTER	9	77	83	90	107	127	166	166	180	254	302	347	167	147	1.70
	SPRING	12	41	45	48	54	76	90	107	139	180	197	204	106	91	1.82
	SUMMER	13	56	56	60	62	64	76	99	107	117	151	189	93	86	1.49
	AUTUMN	13	37	38	64	70	76	166	180	214	227	254	330	152	122	2.07
	58 60	47	37	51	59	69	85	107	133	163	197	234	347	127	107	1.82
WEST VIRGINIA																
CHARLESTON	WINTER	30	31	59	72	90	117	151	254	359	427	508	818	252	175	2.45
	SPRING	30	62	82	90	117	139	214	270	359	410	604	883	269	207	2.10
	SUMMER	30	45	76	87	99	112	127	151	203	254	290	370	160	140	1.69
	AUTUMN	31	20	57	70	90	127	180	241	286	359	427	958	242	169	2.47
	57 61	121	20	64	82	99	122	166	224	278	365	468	958	231	171	2.20
HUNTINGTON	WINTER	7	63	64	64	107	117	127	127	151	214	214	219	135	126	1.52
	SPRING	4	79	1	90	90	107	107	107	127	127	180	174	118	112	1.40
	SUMMER	6	56	64	64	90	90	107	135	135	143	143	148	110	104	1.48
	AUTUMN	7	69	76	76	83	90	127	127	151	180	180	196	123	114	1.50
	60 60	24	56	64	83	90	107	117	127	141	151	197	219	122	114	1.46
WHEELING	WINTER	12	75	76	151	170	180	214	254	278	359	427	444	243	218	1.66
	SPRING	12	103	99	107	151	161	170	180	214	241	254	397	185	172	1.47
	SUMMER	12	130	139	151	161	166	170	175	180	203	214	248	178	175	1.21
	AUTUMN	12	74	76	117	135	143	151	180	214	278	302	380	193	175	1.58
	57 59	48	74	114	137	151	162	173	191	221	247	302	444	200	184	1.50
WISCONSIN																
MADISON	WINTER	12	45	45	48	54	64	70	76	83	107	127	215	82	73	1.59
	SPRING	13	42	45	61	64	90	107	112	117	122	151	340	112	97	1.69
	SUMMER	14	50	50	64	66	71	74	76	90	96	107	116	77	75	1.28
	AUTUMN	13	30	30	45	64	76	90	96	101	107	120	125	80	73	1.62
	59 61	52	30	45	54	64	72	80	90	99	111	123	340	88	79	1.56
MILWAUKEE	WINTER	30	86	96	104	111	117	123	131	143	180	214	367	144	136	1.40
	SPRING	30	49	70	94	107	127	145	166	197	234	278	358	162	143	1.70
	SUMMER	30	56	90	103	114	124	133	142	151	180	206	248	138	131	1.40
	AUTUMN	33	62	83	114	130	139	151	166	180	197	234	284	157	148	1.43
	57 61	123	49	86	102	114	125	137	148	170	196	236	367	151	139	1.49
RACINE	WINTER	9	60	64	90	107	117	127	127	139	151	214	216	129	120	1.49
	SPRING	14	56	64	99	107	127	151	161	180	197	254	273	152	140	1.54
	SUMMER	12	64	64	70	90	114	120	127	161	180	214	232	131	120	1.56
	AUTUMN	11	110	112	117	122	127	180	197	214	254	278	289	181	172	1.41
	57 60	46	56	76	96	112	120	133	159	176	203	234	289	149	137	1.52
WYOMING																
CHEYENNE	WINTER	32	13	18	20	23	27	32	35	38	50	64	87	36	32	1.58
	SPRING	33	13	14	18	22	32	42	47	52	57	62	76	39	34	1.75
	SUMMER	28	26	35	42	45	50	54	60	68	76	94	100	58	55	1.44
	AUTUMN	31	10	21	33	36	40	51	58	64	71	83	130	52	46	1.69
	57 61	124	10	18	23	32	38	44	50	56	62	75	130	46	40	1.69

TABLE 2.5 — SUSPENDED PARTICULATE MATTER: NONURBAN, YEARLY AND CUMULATIVE REGIONAL AND NATIONAL SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57	45	10	23	26	29	32	35	37	43	54	80	111	41	36	1.70
	58	623	1	10	15	20	26	30	34	40	50	68	403	37	28	2.11
	59	918	1	11	15	20	25	30	36	44	56	74	461	39	30	2.18
	60	729	1	9	14	18	23	28	35	41	51	69	314	36	27	2.26
	61	799	1	7	12	17	22	26	31	36	44	59	157	31	23	2.23
	57 61	3114	1	9	14	19	24	29	34	40	50	68	461	36	27	2.20
NEW ENGLAND	58	66	12	16	22	26	30	33	37	42	50	64	118	38	33	1.64
	59	127	3	12	15	19	24	29	33	39	49	64	133	35	28	1.91
	60	100	6	10	14	18	21	25	32	37	44	54	122	31	25	1.89
	61	97	2	12	14	17	21	25	30	37	44	57	106	30	25	1.91
	58 61	390	2	12	15	19	24	28	33	38	46	60	133	33	27	1.87
MID ATLANTIC	58	21	15	15	23	26	29	33	35	37	50	57	64	34	32	1.54
	59	49	15	23	31	37	45	51	56	60	64	90	140	53	48	1.63
	60	48	6	16	19	22	26	32	42	50	56	90	158	43	34	2.00
	61	70	10	18	24	28	34	40	47	54	63	74	105	44	38	1.71
	58 61	188	6	18	23	27	33	39	48	54	61	76	158	45	39	1.77
MID EAST	58	94	12	16	23	26	29	31	34	38	44	54	86	34	32	1.52
	59	148	7	15	18	22	26	29	33	37	43	52	130	32	29	1.62
	60	99	3	14	17	24	26	31	34	37	43	53	115	33	29	1.77
	61	99	7	12	16	21	25	29	32	36	41	49	88	30	26	1.77
	58 61	440	3	14	18	23	27	30	33	37	43	52	130	32	29	1.67
SOUTH EAST	58	93	7	17	20	24	26	30	33	36	45	54	198	35	30	1.66
	59	115	9	16	21	25	28	31	34	37	43	57	137	35	31	1.63
	60	70	3	14	16	18	21	25	29	33	38	47	92	29	25	1.74
	61	69	3	15	19	23	25	27	30	34	43	54	79	31	28	1.71
	58 61	347	3	15	19	23	26	29	32	36	42	53	198	33	29	1.69
MID WEST	57	22	10	11	16	27	32	35	38	42	64	76	111	41	34	1.92
	58	91	7	19	27	32	39	48	56	65	73	85	172	52	44	1.88
	59	70	11	21	27	34	42	48	54	64	84	107	295	60	48	1.92
	60	50	7	11	18	26	31	36	49	57	64	76	107	42	34	2.02
	61	25	29	34	37	43	47	52	57	66	71	81	85	54	52	1.39
	57 61	258	7	18	26	31	38	45	53	62	72	86	295	51	43	1.91
GREAT PLAINS	58	118	3	10	14	16	21	28	33	40	47	64	173	34	26	2.09
	59	122	2	9	13	17	21	27	34	50	68	83	461	43	29	2.47
	60	75	3	11	15	20	23	26	30	36	42	61	132	32	26	1.93
	61	98	6	9	15	18	23	26	31	35	38	48	78	28	24	1.82
	58 61	413	2	9	14	18	22	27	32	38	48	67	461	35	26	2.12
GULF SOUTH	59	72	7	16	24	29	31	36	43	52	64	99	201	49	39	1.94
	60	72	5	15	21	26	33	37	41	47	58	74	120	41	35	1.78
	61	70	9	16	21	24	27	31	34	38	45	64	104	36	31	1.70
	59 61	214	5	16	22	26	30	34	39	46	57	75	201	42	35	1.82
ROCKY MOUNTAIN	58	97	1	5	6	8	10	14	17	25	35	54	403	35	16	2.96
	59	95	2	6	8	11	13	16	21	29	43	68	144	27	18	2.46
	60	71	1	4	6	8	10	12	15	20	27	40	71	18	12	2.39
	61	99	1	3	4	6	8	10	12	16	23	29	85	15	10	2.51
	58 61	362	1	4	6	8	10	12	16	22	31	47	403	24	14	2.67
PACIFIC COAST	57	23	23	24	28	30	32	35	37	42	50	81	85	42	38	1.47
	58	43	4	10	15	17	20	23	26	32	40	72	115	31	24	2.08
	59	120	1	5	9	13	20	27	37	48	63	84	169	38	24	2.88
	60	144	2	6	12	16	28	37	47	57	82	127	314	52	31	2.99
	61	172	2	6	9	13	17	23	28	34	44	66	157	30	21	2.47
	57 61	502	1	6	10	15	20	27	34	44	59	86	314	39	25	2.68

TABLE 2.6—SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BALDWIN COUNTY	58	22	12	15	17	20	23	27	29	31	36	48	49	28	26	1.49
	59	23	11	15	20	23	27	30	31	34	37	50	60	30	28	1.51
	58 59	45	11	15	18	22	25	28	30	33	36	49	60	29	27	1.50
ALASKA																
PT WORONZOF	58	23	4	5	10	14	16	21	23	25	27	38	83	23	18	2.04
	59	25	4	5	6	10	11	14	16	18	21	42	54	17	13	2.02
	60	26	4	5	7	11	12	15	17	19	30	42	48	19	15	2.07
	61	26	2	4	5	6	8	12	13	17	18	27	45	14	11	2.08
	58 61	100	2	5	6	10	12	14	17	20	25	38	83	18	14	2.08
ARIZONA																
GRAND CANYON PK	59	24	2	5	7	8	13	21	23	32	36	45	53	23	17	2.39
	60	21	2	5	8	13	15	18	34	38	50	64	79	28	20	2.61
	61	25	2	5	6	12	13	15	16	27	30	38	60	20	15	2.34
	59 61	70	2	5	7	11	14	16	24	30	36	49	79	23	17	2.43
MARICOPA COUNTY	60	26	8	32	[illegible]	42	45	52	58	76	87	99	172	63	54	1.87
	61	26	16	32	[illegible]	42	45	52	64	72	90	117	157	65	57	1.68
	60 61	52	[illegible]	30	37	42	46	52	64	74	88	117	172	64	55	1.77
ARKANSAS																
MONTGOMERY CO	59	26	9	15	19	28	31	35	45	51	64	76	170	46	37	1.99
	60	26	12	21	24	32	34	37	41	44	50	54	78	39	36	1.55
	61	24	17	19	21	23	26	32	34	38	42	54	104	35	32	1.55
	59 61	76	9	18	22	26	31	35	38	43	51	70	170	40	35	1.71
CALIFORNIA																
HUMBOLDT COUNTY	60	20	11	30	34	38	45	49	52	59	90	127	282	67	52	1.98
	61	23	15	19	26	28	31	36	50	64	72	96	106	48	41	1.76
	60 61	43	11	23	29	32	36	46	51	61	76	103	282	57	46	1.87
COLORADO																
MONTEZUMA COUNTY	58	26	4	5	6	8	10	13	15	16	18	29	33	14	12	1.83
	59	22	4	5	6	9	11	12	15	19	32	64	80	22	15	2.39
	60	24	2	2	6	8	10	11	12	15	21	35	53	15	11	2.26
	61	25	1	4	5	7	8	9	10	12	13	25	25	11	9	2.08
	58 61	97	1	4	6	7	9	11	13	15	21	30	80	15	11	2.15
CONNECTICUT																
LITCHFIELD CO	58	20	12	16	25	28	30	32	34	37	42	68	75	36	32	1.58
	59	25	12	16	20	23	26	32	36	43	50	70	110	37	32	1.72
	58 59	45	12	16	21	25	28	32	35	39	45	69	110	37	32	1.65
DELAWARE																
KENT COUNTY	59	25	29	36	42	48	51	56	59	64	76	107	140	63	58	1.48
	61	22	28	32	42	50	54	59	64	70	81	90	105	61	58	1.41
	59 61	47	28	35	42	48	52	57	61	68	80	94	140	62	58	1.44
FLORIDA																
FLORIDA KEYS	58	22	7	11	17	18	23	26	30	34	45	64	198	37	27	2.03
	60	21	3	7	12	14	15	17	18	20	22	27	30	17	15	1.64
	61	25	7	15	18	23	26	28	30	32	38	50	79	30	27	1.65
	58 61	68	3	12	15	17	19	22	26	30	33	45	198	28	23	1.87
GEORGIA																
CHATHAM COUNTY	58	26	19	25	27	32	35	40	47	50	64	70	97	45	41	1.51
	59	24	13	16	23	25	27	30	34	38	42	54	63	33	30	1.47
	58 59	50	13	21	25	27	31	35	39	44	51	64	97	39	36	1.52
HAWAII																
KAHALUU	59	26	30	36	42	57	61	67	76	90	117	127	169	78	71	1.58
	60	26	34	51	59	75	83	93	104	132	146	197	314	112	97	1.71
	61	26	18	20	22	25	26	30	33	35	38	43	92	32	30	1.41
	59 61	78	18	25	32	36	45	59	72	90	107	141	314	74	59	1.94
WAIMANALO	57	23	23	24	28	30	32	35	37	42	50	81	85	42	38	1.47

TABLE 2.6 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
IDAHO																
BUTTE COUNTY	58	22	5	5	7	8	16	21	25	34	38	45	56	24	18	2.23
	59	23	8	8	14	15	18	22	27	30	35	45	65	26	22	1.80
	60	22	6	7	9	12	13	18	21	27	40	43	49	22	18	1.95
	61	23	4	4	7	11	12	16	21	25	30	54	85	23	16	2.37
	58 61	90	4	6	8	12	15	19	23	30	37	45	85	24	19	2.08
ILLINOIS																
SANGAMON COUNTY	58	23	23	30	36	48	54	59	62	67	73	85	109	60	55	1.50
	59	24	15	29	34	38	45	49	52	61	76	99	142	56	50	1.62
	58 59	47	15	30	34	40	48	54	58	64	76	87	142	58	53	1.56
INDIANA																
PARKE COUNTY	58	26	26	30	38	45	49	54	66	71	80	87	98	58	54	1.46
	60	26	24	32	38	50	54	58	63	67	76	85	107	59	56	1.45
	61	25	29	34	37	43	47	52	57	66	71	81	85	54	52	1.39
	58 61	77	24	31	37	46	50	56	62	68	75	84	107	57	54	1.43
IOWA																
DELAWARE COUNTY	59	26	6	13	19	27	34	38	66	71	83	107	461	70	43	2.67
	60	26	8	16	19	23	26	30	36	40	54	64	132	38	31	1.65
	61	25	16	24	27	30	32	35	36	40	45	52	65	36	34	1.37
	59 61	77	6	17	22	27	31	35	38	45	64	75	461	48	36	2.02
KENTUCKY																
PULASKI COUNTY	58	23	12	19	30	34	37	40	43	45	49	54	61	40	38	1.47
	59	26	14	21	22	25	27	32	37	42	51	59	130	38	34	1.60
	58 59	49	12	20	24	29	33	37	40	44	50	57	130	39	36	1.54
LOUISANA																
ST TAMMANY PAR	59	25	21	25	28	32	40	50	57	76	99	127	201	64	52	1.88
MAINE																
ACADIA NAT PARK	58	20	13	14	16	18	21	24	27	32	40	45	54	28	25	1.55
	59	26	7	12	15	19	21	27	30	32	42	54	80	29	25	1.76
	60	25	6	8	12	18	20	24	26	35	40	50	60	26	22	1.87
	61	25	7	11	15	18	23	25	26	38	45	64	78	30	25	1.88
	58 61	96	6	11	15	18	21	24	28	33	42	50	80	28	24	1.77
MARYLAND																
CALVERT COUNTY	59	26	15	24	27	30	31	34	37	40	45	51	75	37	35	1.43
	60	25	4	25	27	34	37	45	50	57	62	72	115	46	40	1.86
	61	25	8	27	30	33	36	39	42	45	51	64	88	42	39	1.58
	59 61	76	4	25	28	31	34	37	42	46	53	64	115	41	38	1.63
MASSACHUSETTS																
NANTUCKET	58	26	16	25	29	34	37	42	47	52	61	76	118	47	42	1.58
	59	26	10	15	19	30	32	36	40	43	54	64	133	41	35	1.82
	58 59	52	10	16	27	31	35	38	42	48	58	76	133	44	38	1.71
MICHIGAN																
HURON COUNTY	57	22	10	11	16	27	32	35	38	42	64	76	111	41	34	1.92
	58	22	7	11	17	23	28	30	32	45	76	90	156	44	33	2.19
	59	23	11	16	21	22	27	32	45	51	64	81	90	41	35	1.81
	57 59	67	7	13	19	24	29	32	38	48	68	81	156	42	34	1.96
MINNESOTA																
COOK COUNTY	58	23	8	11	15	19	29	34	38	47	52	76	173	45	33	2.17
	59	24	8	9	13	19	48	54	64	80	87	127	182	59	42	2.56
	58 59	47	8	11	14	19	32	45	50	64	80	107	182	52	37	2.37
MISSISSIPPI																
JACKSON COUNTY	58	23	13	18	21	23	25	28	30	32	34	38	47	28	27	1.35
	59	22	9	16	18	20	22	24	26	28	30	31	48	25	23	1.41
	60	23	14	16	21	24	25	27	30	34	37	43	53	29	27	1.39
	61	21	3	9	20	21	22	25	26	29	32	42	66	27	23	1.83
	58 61	89	3	17	20	22	24	26	28	30	33	39	66	27	25	1.51

TABLE 2.6—SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MISSOURI																
SHANNON COUNTY	58	22	18	19	23	29	31	39	41	42	45	59	71	38	35	1.47
	59	24	11	13	19	21	27	29	31	45	51	61	66	33	29	1.69
	61	22	9	13	16	22	24	26	32	34	38	43	64	29	26	1.60
	58 61	68	9	15	20	23	27	30	35	40	44	56	71	33	30	1.61
MONTANA																
GLACIER NAT PARK	58	26	1	4	6	7	7	8	11	12	24	27	225	21	11	2.74
	59	26	2	4	5	8	9	11	13	16	26	64	89	21	13	2.74
	60	25	1	3	4	6	8	10	12	19	23	38	71	16	10	2.70
	61	25	3	3	4	6	7	11	12	19	29	38	45	15	11	2.45
	58 61	102	1	3	4	6	8	10	12	16	26	38	225	18	11	2.63
NEBRASKA																
THOMAS COUNTY	58	26	9	13	14	15	18	22	30	38	51	59	101	32	26	1.90
	59	23	7	9	12	15	18	22	25	29	32	68	70	28	22	1.94
	60	26	8	11	15	18	20	24	27	37	42	50	72	28	24	1.78
	61	26	6	7	8	11	16	18	23	26	30	38	53	21	18	1.90
	58 61	101	6	9	13	15	18	22	25	30	42	53	101	27	22	1.90
NEVADA																
WHITE PINE CO	59	21	1	2	5	6	7	10	11	16	23	45	95	18	10	2.93
	60	25	2	3	5	6	7	12	14	19	22	32	189	21	11	2.69
	61	25	2	4	5	6	7	11	13	21	24	38	58	16	11	2.35
	59 61	71	1	3	5	6	7	11	13	18	23	38	189	18	11	2.61
NEW HAMPSHIRE																
COOS COUNTY	59	25	3	9	11	13	14	16	21	26	28	32	37	20	17	1.78
	60	24	6	6	10	12	14	16	18	21	24	27	39	18	16	1.64
	61	23	7	10	12	12	13	15	17	19	21	25	31	17	16	1.42
	59 61	72	3	9	11	12	14	15	18	21	25	29	39	18	16	1.62
NEW MEXICO																
COLFAX COUNTY	59	21	7	15	18	23	28	31	35	40	45	59	68	33	30	1.73
	60	22	5	12	15	19	30	35	40	45	59	76	120	39	31	2.10
	61	21	9	9	12	15	23	29	32	36	42	54	67	30	25	1.85
	59 61	64	5	12	15	19	28	31	35	41	47	62	120	34	28	1.89
NEW YORK																
CAPE VINCENT	60	22	6	9	15	19	23	25	26	32	48	54	63	30	25	1.87
	61	25	10	13	16	19	22	26	30	36	42	54	68	29	26	1.68
	60 61	47	6	12	15	18	22	25	27	34	45	52	68	30	26	1.76
NORTH CAROLINA																
CAPE HATTERAS	58	23	19	21	25	27	28	31	32	38	42	54	86	35	33	1.43
	59	22	15	16	19	24	25	26	32	36	43	50	61	31	29	1.47
	60	24	16	19	25	27	32	34	35	37	39	44	54	33	32	1.31
	61	24	13	16	21	22	25	29	32	37	40	54	65	32	30	1.48
	58 61	93	13	19	23	25	27	31	34	37	41	47	86	33	31	1.42
NORTH DAKOTA																
WARD COUNTY	58	26	3	8	10	13	16	25	30	34	38	54	83	28	21	2.25
	59	25	2	5	7	12	14	16	19	22	27	70	95	23	16	2.48
	60	23	3	7	13	16	21	24	27	34	37	45	93	28	22	2.14
	61	25	6	8	10	16	19	22	25	35	38	59	78	27	22	1.99
	58 61	99	2	7	10	14	17	21	25	32	37	57	95	26	20	2.22
OHIO																
SOUTH BASS ISL	59	23	20	22	40	43	50	61	83	99	127	166	295	84	65	2.07
OKLAHOMA																
CHEROKEE COUNTY	60	24	16	19	23	26	34	37	45	57	64	76	97	44	39	1.69
	61	25	18	22	24	28	30	32	36	54	61	81	88	42	37	1.61
	60 61	49	16	20	24	27	31	35	38	54	62	76	97	43	38	1.64
OREGON																
CURRY COUNTY	58	20	14	15	18	20	22	30	38	43	68	76	115	40	32	1.90
	59	24	11	20	28	31	38	48	54	67	73	85	123	52	45	1.81
	58 59	44	11	16	21	23	31	38	45	64	71	85	123	47	39	1.88

TABLE 2.6 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PENNSYLVANIA																
CLARION COUNTY	58	21	15	15	23	26	29	33	35	37	50	57	64	34	32	1.54
	59	24	15	20	23	27	32	38	45	57	61	76	109	44	39	1.65
	60	26	18	19	22	30	35	45	52	57	90	101	158	55	44	1.91
	61	23	22	23	26	30	34	40	45	51	57	64	81	42	39	1.46
	58 61	94	15	20	24	28	32	37	44	53	59	76	158	44	39	1.67
PUERTO RICO																
LOQUILLO MTS	59	26	7	11	12	14	15	16	19	27	36	45	71	25	21	1.82
	60	24	3	11	13	13	15	16	17	19	22	26	32	18	16	1.57
	61	26	7	7	8	11	12	14	15	20	23	30	44	17	14	1.71
	59 61	76	3	8	11	13	14	15	17	21	25	34	71	20	17	1.73
RHODE ISLAND																
WASHINGTON CO	59	25	11	15	18	25	32	45	49	54	70	90	118	46	37	1.98
	60	26	9	13	15	19	21	27	31	35	45	51	122	33	27	1.85
	61	24	2	8	15	16	23	32	36	45	59	70	106	36	28	2.37
	59 61	75	2	13	15	20	24	31	37	47	56	76	122	38	30	2.07
SOUTH CAROLINA																
RICHLAND COUNTY	59	24	9	11	18	23	26	30	33	35	37	42	45	28	26	1.53
	60	26	14	17	18	28	30	34	38	43	51	59	92	38	34	1.66
	61	23	16	16	23	25	27	32	42	48	54	62	71	37	34	1.59
	59 61	73	9	15	19	25	28	32	35	40	45	57	92	34	31	1.61
SOUTH DAKOTA																
BLACK HILLS	58	21	5	6	7	10	14	18	24	27	42	64	99	27	19	2.34
TENNESSEE																
STEWART COUNTY	59	22	28	33	35	38	45	51	57	64	83	99	137	60	55	1.53
UTAH																
BRYCE CANYON PK	58	23	4	5	8	10	16	23	38	76	151	254	403	84	32	4.40
	59	24	8	9	12	13	19	27	40	50	59	107	144	41	29	2.38
	58 59	47	4	8	10	13	17	27	40	54	99	151	403	62	30	3.30
VERMONT																
ORANGE COUNTY	60	25	19	25	33	35	37	42	47	54	59	70	81	45	42	1.46
	61	25	18	22	24	30	34	38	40	43	45	54	64	37	35	1.39
	60 61	50	18	22	26	33	35	38	42	46	53	61	81	41	39	1.44
VIRGINIA																
SHENANDOAH PARK	58	25	12	13	15	21	24	27	30	35	38	64	65	30	27	1.65
	59	26	13	16	21	26	28	31	36	40	45	50	60	33	30	1.53
	60	26	9	18	23	28	30	33	35	37	43	48	97	35	32	1.58
	61	24	18	18	24	26	29	31	33	37	40	45	56	32	30	1.34
	58 61	101	9	15	20	25	28	31	34	37	42	50	97	33	30	1.54
WASHINGTON																
CLALLAM COUNTY	61	21	6	7	8	9	10	11	13	16	18	21	42	14	12	1.58
WEST VIRGINIA																
WEBSTER COUNTY	58	23	16	17	24	27	28	30	31	32	35	54	68	32	30	1.41
	59	22	15	16	18	20	22	27	30	32	38	45	76	29	27	1.52
	58 59	45	15	17	19	23	27	29	30	33	36	54	76	31	28	1.46
WISCONSIN																
DOOR COUNTY	58	20	7	11	21	24	27	38	43	48	54	70	172	43	33	2.06
	60	24	7	8	11	15	18	23	26	30	34	38	68	24	20	1.83
	58 60	44	7	8	14	18	24	26	32	37	43	64	172	33	26	2.01
WYOMING																
YELLOWSTONE PARK	61	26	1	1	2	4	4	8	11	12	19	21	25	10	7	2.65

TABLE 2.7 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BALDWIN COUNTY	WINTER	13	11	11	23	28	30	32	34	36	38	51	49	33	30	1.57
	SPRING	11	17	18	19	23	25	29	30	32	34	36	37	27	27	1.30
	SUMMER	13	15	15	18	19	20	22	23	27	29	32	48	24	22	1.37
	AUTUMN	8	12	13	16	16	27	32	38	45	45	54	60	34	30	1.73
	58 59	45	11	15	18	22	25	28	30	33	36	49	60	29	27	1.50
ALASKA																
PT WORONZOF	WINTER	26	4	5	5	6	8	11	12	13	19	23	83	15	11	2.03
	SPRING	24	4	4	6	9	13	16	18	23	26	38	47	18	14	2.17
	SUMMER	25	5	11	12	14	15	18	19	22	32	48	54	22	19	1.79
	AUTUMN	25	2	5	6	9	11	15	17	19	30	40	45	18	14	2.22
	58 61	100	2	5	6	10	12	14	17	20	25	38	83	18	14	2.08
ARIZONA																
GRAND CANYON PK	WINTER	18	2	4	5	5	6	7	12	13	16	45	52	15	10	2.47
	SPRING	19	3	6	8	11	14	16	23	27	34	38	60	22	17	2.17
	SUMMER	15	16	23	25	29	30	35	38	50	54	76	79	41	37	1.57
	AUTUMN	18	2	2	11	12	14	15	18	21	23	35	53	18	14	2.33
	59 61	70	2	5	7	11	14	16	24	30	36	49	79	23	17	2.43
MARICOPA COUNTY	WINTER	17	8	8	16	32	34	36	38	42	50	54	104	41	35	1.89
	SPRING	14	39	40	43	45	51	54	76	85	90	127	157	72	65	1.55
	SUMMER	12	44	45	48	54	59	64	68	72	127	151	172	79	72	1.57
	AUTUMN	14	19	19	35	38	45	64	70	81	85	107	137	63	56	1.69
	60 61	52	8	30	37	42	46	52	64	74	88	117	172	64	55	1.77
ARKANSAS																
MONTGOMERY CO	WINTER	18	9	12	16	19	21	23	32	36	38	43	51	27	24	1.64
	SPRING	19	16	19	23	32	36	40	43	54	81	90	170	52	43	1.85
	SUMMER	21	14	19	25	27	34	42	47	50	54	72	112	44	39	1.65
	AUTUMN	18	21	24	26	27	32	34	36	38	42	54	74	36	34	1.39
	59 61	76	9	18	22	26	31	35	38	43	51	70	170	40	35	1.71
CALIFORNIA																
HUMBOLDT COUNTY	WINTER	10	19	19	27	30	32	50	54	64	76	90	106	53	46	1.74
	SPRING	10	15	16	32	34	36	38	50	54	70	76	110	50	44	1.76
	SUMMER	12	11	11	25	30	32	36	45	48	54	64	282	57	40	2.14
	AUTUMN	11	21	23	32	35	38	64	90	96	101	107	137	67	57	1.85
	60 61	43	11	23	29	32	36	46	51	61	76	103	282	57	46	1.87
COLORADO																
MONTEZUMA COUNTY	WINTER	23	2	3	4	5	5	6	9	10	11	14	15	8	7	1.69
	SPRING	26	2	6	7	8	10	11	15	19	27	38	77	19	14	2.31
	SUMMER	25	4	8	9	16	18	22	24	27	30	38	80	22	18	1.97
	AUTUMN	23	1	4	6	7	9	11	11	12	13	15	18	10	9	1.86
	58 61	97	1	4	6	7	9	11	13	15	21	30	80	15	11	2.15
CONNECTICUT																
LITCHFIELD CO	WINTER	10	12	13	16	23	25	27	32	35	38	45	110	35	28	1.83
	SPRING	9	15	15	16	19	27	30	30	32	45	54	62	33	30	1.67
	SUMMER	13	20	21	32	34	35	38	40	43	45	70	71	40	38	1.43
	AUTUMN	13	12	13	23	25	27	30	32	35	38	72	75	37	32	1.74
	58 59	45	12	16	21	25	28	32	35	39	45	69	110	37	32	1.65
DELAWARE																
KENT COUNTY	WINTER	9	29	32	40	43	45	50	50	54	59	64	119	55	52	1.47
	SPRING	14	28	32	48	51	57	61	64	76	83	107	140	68	63	1.53
	SUMMER	11	42	45	48	51	54	64	70	76	90	99	92	66	64	1.28
	AUTUMN	13	29	32	36	38	50	57	61	64	70	90	105	57	53	1.44
	59 61	47	28	35	42	48	52	57	61	68	80	94	140	62	58	1.44
FLORIDA																
FLORIDA KEYS	WINTER	19	3	7	11	15	17	18	19	27	30	32	36	20	17	1.91
	SPRING	15	14	16	19	21	22	27	32	45	54	76	198	43	31	2.04
	SUMMER	17	12	13	14	16	19	26	27	30	32	38	50	25	23	1.56
	AUTUMN	17	7	13	16	18	19	22	23	30	38	45	79	27	23	1.75
	58 61	68	3	12	15	17	19	22	26	30	33	45	198	28	23	1.87

TABLE 2.7—SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE—Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GEORGIA																
CHATHAM COUNTY	WINTER	12	19	19	25	38	40	43	45	54	64	70	76	44	41	1.55
	SPRING	13	26	25	29	30	32	35	37	38	45	51	51	36	35	1.25
	SUMMER	13	13	13	23	25	27	30	32	35	38	54	64	33	30	1.55
	AUTUMN	12	18	19	23	26	27	38	42	45	70	76	97	43	38	1.68
	58 59	50	13	21	25	27	31	35	39	44	51	64	97	39	36	1.52
HAWAII																
KAHALUU	WINTER	20	23	25	32	34	36	38	54	64	127	151	314	79	57	2.16
	SPRING	19	19	23	32	38	54	67	70	76	107	135	134	68	57	1.88
	SUMMER	19	18	23	27	38	59	70	76	90	101	151	188	75	60	2.03
	AUTUMN	20	23	30	38	43	54	61	81	90	107	127	211	74	63	1.79
	59 61	78	18	25	32	36	45	59	72	90	107	141	314	74	59	1.94
WAIMANALO	WINTER	5	23	23	23	32	32	35	35	38	38	90	85	42	38	1.63
	SPRING	6	26	27	27	34	34	36	38	38	42	42	40	35	35	1.17
	SUMMER	6	25	25	25	27	27	29	30	30	32	32	34	29	29	1.12
	AUTUMN	6	32	32	32	50	50	54	76	76	83	83	84	60	57	1.44
	57 57	23	23	24	28	30	32	35	37	42	50	81	85	42	38	1.47
IDAHO																
BUTTE COUNTY	WINTER	24	4	4	6	7	11	12	13	15	16	30	39	14	12	1.88
	SPRING	24	5	5	7	8	15	17	18	21	23	45	85	21	15	2.20
	SUMMER	23	19	20	23	27	30	34	36	38	42	50	61	34	33	1.36
	AUTUMN	19	8	9	11	13	15	19	23	35	45	54	65	27	22	2.00
	58 61	90	4	6	8	12	15	19	23	30	37	45	85	24	19	2.08
ILLINOIS																
SANGAMON COUNTY	WINTER	11	23	23	30	32	35	45	54	57	61	64	88	46	43	1.48
	SPRING	14	37	38	48	51	70	76	81	90	99	127	142	77	72	1.49
	SUMMER	11	31	32	35	38	50	57	59	62	64	76	80	55	52	1.37
	AUTUMN	11	15	16	30	32	38	50	54	59	64	70	76	47	43	1.61
	58 59	47	15	30	34	40	48	54	58	64	76	87	142	58	53	1.56
INDIANA																
PARKE COUNTY	WINTER	21	29	30	32	36	42	49	52	59	68	76	83	50	47	1.41
	SPRING	19	26	32	38	54	59	64	66	71	76	90	98	62	58	1.45
	SUMMER	18	31	38	46	48	50	53	64	70	73	81	80	58	56	1.31
	AUTUMN	19	24	32	40	45	56	60	62	70	81	90	107	61	56	1.50
	58 61	77	24	31	37	46	50	56	62	68	75	84	107	57	54	1.43
IOWA																
DELAWARE COUNTY	WINTER	19	6	8	23	30	32	36	38	45	54	70	104	40	33	2.02
	SPRING	17	13	16	23	27	34	37	38	54	76	90	461	70	44	2.35
	SUMMER	20	18	24	27	30	34	37	40	43	54	72	78	42	39	1.48
	AUTUMN	21	7	13	17	19	23	27	34	38	54	76	230	44	31	2.21
	59 61	77	6	17	22	27	31	35	38	45	64	75	461	48	36	2.02
KENTUCKY																
PULASKI COUNTY	WINTER	13	12	13	23	24	26	30	32	35	38	45	130	36	30	1.72
	SPRING	12	14	16	20	23	27	32	38	42	50	54	57	35	32	1.54
	SUMMER	14	29	32	38	40	45	47	49	52	54	61	63	48	46	1.27
	AUTUMN	10	19	19	23	30	32	34	36	38	45	54	66	37	35	1.43
	58 59	49	12	20	24	29	33	37	40	44	50	57	130	39	36	1.54
LOUISANA																
ST TAMMANY PAR	WINTER	6	21	23	23	32	32	38	54	54	64	64	93	49	44	1.71
	SPRING	6	21	23	23	30	30	32	45	45	64	64	133	53	43	1.95
	SUMMER	7	25	25	25	27	32	45	45	54	107	107	201	68	51	2.16
	AUTUMN	6	43	45	45	64	64	76	90	90	117	117	126	85	79	1.51
	59 59	25	21	25	28	32	40	50	57	76	99	127	201	64	52	1.88
MAINE																
ACADIA NAT PARK	WINTER	22	7	8	11	16	19	23	25	27	38	54	60	26	22	1.80
	SPRING	23	6	7	13	18	21	25	26	30	38	45	54	26	22	1.83
	SUMMER	24	7	13	18	21	26	28	31	39	42	59	78	32	28	1.75
	AUTUMN	27	12	13	15	17	20	23	27	36	47	52	80	30	26	1.71
	58 61	96	6	11	15	18	21	24	28	33	42	50	80	28	24	1.77

TABLE 2.7 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution — Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MARYLAND CALVERT COUNTY	WINTER	18	15	19	26	27	30	34	37	45	50	64	78	38	34	1.56
	SPRING	20	8	25	29	32	35	38	42	45	59	70	115	45	40	1.71
	SUMMER	18	24	26	32	34	38	43	47	50	52	59	65	43	42	1.36
	AUTUMN	20	4	27	29	31	34	37	40	43	50	64	88	40	35	1.82
	59 61	76	4	25	28	31	34	37	42	46	53	64	115	41	38	1.63
MASSACHUSETTS NANTUCKET	WINTER	13	17	19	29	30	32	38	42	45	48	54	55	36	36	1.41
	SPRING	12	23	23	32	36	38	45	50	54	64	76	87	49	46	1.46
	SUMMER	14	10	11	27	29	32	38	45	64	83	127	133	53	41	2.14
	AUTUMN	13	13	13	16	23	34	38	40	42	43	64	65	36	32	1.70
	58 59	52	10	16	27	31	35	38	42	48	58	76	133	44	38	1.71
MICHIGAN HURON COUNTY	WINTER	15	7	10	11	19	27	30	31	35	38	50	53	28	24	1.88
	SPRING	15	17	19	20	22	23	30	32	61	64	90	156	48	37	2.00
	SUMMER	17	23	25	27	32	36	42	45	67	73	76	92	49	45	1.56
	AUTUMN	20	10	11	15	19	27	32	40	45	80	87	111	43	33	2.13
	57 59	67	7	13	19	24	29	32	38	48	68	81	156	42	34	1.96
MINNESOTA COOK COUNTY	WINTER	13	8	8	9	11	12	14	14	15	15	32	38	16	14	1.60
	SPRING	12	11	11	18	38	45	48	51	54	76	151	182	62	46	2.30
	SUMMER	12	33	38	50	64	68	72	76	90	127	151	173	84	76	1.58
	AUTUMN	10	22	23	27	30	32	38	50	54	81	85	87	49	44	1.66
	58 59	47	8	11	14	19	32	45	50	64	80	107	182	52	37	2.37
MISSISSIPPI JACKSON COUNTY	WINTER	21	3	9	16	18	19	27	29	30	32	38	53	25	21	1.90
	SPRING	24	14	19	21	22	24	25	26	29	32	42	48	27	26	1.32
	SUMMER	22	13	16	20	24	25	26	27	28	32	38	66	28	26	1.40
	AUTUMN	22	17	18	20	23	26	28	30	32	37	40	42	28	27	1.32
	58 61	89	3	17	20	22	24	26	28	30	33	39	66	27	25	1.51
MISSOURI SHANNON COUNTY	WINTER	15	12	16	19	21	21	23	27	38	42	54	60	29	26	1.58
	SPRING	18	18	24	27	28	30	32	38	43	45	61	71	38	36	1.46
	SUMMER	17	9	14	15	19	23	32	35	40	45	54	66	32	28	1.75
	AUTUMN	18	11	13	21	23	27	30	38	42	43	50	60	32	29	1.61
	58 61	68	9	15	20	23	27	30	35	40	44	56	71	33	30	1.61
MONTANA GLACIER NAT PARK	WINTER	27	1	2	3	3	4	5	7	8	9	11	48	7	5	2.11
	SPRING	26	3	4	5	6	7	8	10	11	13	16	33	11	9	1.80
	SUMMER	25	13	15	19	23	25	27	32	42	54	76	225	42	32	1.99
	AUTUMN	24	1	3	5	7	9	10	11	13	19	27	66	14	10	2.35
	58 61	102	1	3	4	6	8	10	12	16	26	38	225	18	11	2.63
NEBRASKA THOMAS COUNTY	WINTER	25	6	7	8	10	12	14	15	19	21	23	53	16	14	1.65
	SPRING	26	8	13	15	18	20	24	27	30	35	51	70	28	24	1.72
	SUMMER	28	9	14	17	18	20	27	31	40	45	52	69	31	27	1.74
	AUTUMN	22	7	9	11	19	25	27	30	38	67	73	101	35	28	2.08
	58 61	101	6	9	13	15	18	22	25	30	42	53	101	27	22	1.90
NEVADA WHITE PINE CO	WINTER	18	1	2	3	3	4	4	5	6	9	11	189	16	6	3.09
	SPRING	18	3	5	6	6	6	8	11	13	16	27	95	17	11	2.34
	SUMMER	16	10	13	16	20	21	23	27	32	45	50	58	28	25	1.66
	AUTUMN	19	2	4	5	7	8	12	13	15	16	19	27	12	10	1.89
	59 61	71	1	3	5	6	7	11	13	18	23	38	189	18	11	2.61
NEW HAMPSHIRE COOS COUNTY	WINTER	17	6	7	9	10	11	12	13	14	16	21	27	14	13	1.47
	SPRING	19	11	11	12	13	15	18	19	22	27	30	39	19	18	1.48
	SUMMER	17	3	13	14	16	18	19	23	25	26	27	38	21	19	1.76
	AUTUMN	19	6	8	11	12	14	16	18	21	25	30	37	18	16	1.63
	59 61	72	3	9	11	12	14	15	18	21	25	29	39	18	16	1.62

TABLE 2.7 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEW MEXICO COLFAX COUNTY	WINTER	17	5	9	12	14	16	18	19	32	42	45	59	25	21	1.96
	SPRING	18	12	13	23	25	28	30	32	36	38	45	78	34	30	1.64
	SUMMER	15	15	16	23	32	35	42	45	54	59	76	120	45	38	1.76
	AUTUMN	14	7	7	13	19	30	32	38	45	54	64	68	34	28	2.06
	59 61	64	5	12	15	19	28	31	35	41	47	62	120	34	28	1.89
NEW YORK CAPE VINCENT	WINTER	9	6	6	16	19	20	22	22	23	38	50	54	27	23	1.95
	SPRING	12	10	11	12	19	25	27	32	35	45	54	63	30	26	1.80
	SUMMER	13	17	18	21	23	24	26	27	30	32	64	68	32	29	1.57
	AUTUMN	13	9	9	14	15	16	25	27	35	38	54	66	28	24	1.84
	60 61	47	6	12	15	18	22	25	27	34	45	52	68	30	26	1.76
NORTH CAROLINA CAPE HATTERAS	WINTER	26	16	22	24	25	26	28	31	38	42	45	86	34	31	1.44
	SPRING	25	22	25	29	33	34	37	38	42	44	51	67	37	36	1.30
	SUMMER	21	13	15	18	20	23	28	31	34	37	40	40	28	26	1.41
	AUTUMN	21	15	18	20	23	25	27	32	35	38	54	65	32	29	1.45
	58 61	93	13	19	23	25	27	31	34	37	41	47	86	33	31	1.42
NORTH DAKOTA WARD COUNTY	WINTER	23	3	3	6	7	10	16	18	20	23	36	54	18	13	2.20
	SPRING	27	2	8	10	14	15	20	22	26	38	70	95	27	20	2.34
	SUMMER	25	7	10	13	25	30	34	35	37	45	70	78	34	28	1.93
	AUTUMN	24	3	5	13	15	19	21	23	27	38	45	93	27	21	2.11
	58 61	99	2	7	10	14	17	21	25	32	37	57	95	26	20	2.22
OHIO SOUTH BASS ISL	WINTER	4	20	1	21	21	23	23	23	59	59	64	58	39	34	1.8[illegible]
	SPRING	6	25	27	27	45	45	54	64	64	90	90	115	62	56	1.70
	SUMMER	7	77	90	90	99	107	139	139	151	180	180	295	146	133	1.58
	AUTUMN	6	23	23	23	40	40	43	45	45	54	54	165	62	50	1.91
	59 59	23	20	22	40	43	50	61	83	99	127	166	295	84	65	2.07
OKLAHOMA CHEROKEE COUNTY	WINTER	11	16	16	19	27	30	34	35	37	38	45	88	35	32	1.56
	SPRING	13	20	21	35	38	45	59	62	64	76	90	96	56	50	1.67
	SUMMER	13	19	19	25	27	30	35	38	50	54	76	97	42	37	1.63
	AUTUMN	12	22	20	22	24	26	27	30	32	64	70	74	37	34	1.58
	60 61	49	16	20	24	27	31	35	38	54	62	76	97	43	38	1.64
OREGON CURRY COUNTY	WINTER	9	40	45	54	64	67	70	70	73	76	90	98	70	68	1.31
	SPRING	12	18	19	29	32	35	38	54	64	76	117	123	54	46	1.81
	SUMMER	13	11	11	19	20	21	22	23	29	30	42	42	25	23	1.44
	AUTUMN	10	14	15	16	21	23	38	45	54	76	83	90	46	37	2.01
	58 59	44	11	16	21	23	31	38	45	64	71	85	123	47	39	1.88
PENNSYLVANIA CLARION COUNTY	WINTER	22	20	21	23	27	32	35	38	47	54	64	100	42	38	1.58
	SPRING	24	15	16	20	23	29	32	36	45	51	64	9[illegible]	37	33	1.63
	SUMMER	25	22	27	30	36	40	50	56	62	76	127	158	57	49	1.70
	AUTUMN	23	15	16	23	26	30	36	45	55	58	63	79	40	36	1.65
	58 61	94	15	20	24	28	32	37	44	53	59	76	158	44	39	1.67
PUERTO RICO LOQUILLO MTS	WINTER	19	3	6	7	10	12	13	14	15	16	19	23	13	12	1.63
	SPRING	19	12	12	13	13	15	15	16	21	24	27	35	19	18	1.43
	SUMMER	19	11	13	15	19	22	25	27	30	35	54	71	29	25	1.72
	AUTUMN	19	7	7	8	13	14	15	15	17	19	32	44	18	16	1.70
	59 61	76	3	8	11	13	14	15	17	21	25	34	71	20	17	1.73
RHODE ISLAND WASHINGTON CO	WINTER	18	2	12	15	16	19	21	23	42	45	54	117	32	24	2.39
	SPRING	19	9	11	14	15	19	25	27	32	48	54	118	32	26	1.96
	SUMMER	19	14	30	35	42	48	54	57	64	76	90	122	57	51	1.67
	AUTUMN	19	8	11	16	19	23	29	30	34	38	64	82	31	26	1.82
	59 61	75	2	13	15	20	24	31	37	47	56	76	122	38	30	2.07

TABLE 2.7 — SUSPENDED PARTICULATE MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SOUTH CAROLINA																
RICHLAND COUNTY	WINTER	17	14	17	18	25	30	34	35	38	45	50	57	33	31	1.51
	SPRING	19	14	15	16	23	28	30	31	35	42	57	62	32	29	1.56
	SUMMER	17	9	11	18	27	34	37	38	45	59	64	92	39	33	1.88
	AUTUMN	20	14	17	19	24	26	30	35	40	45	51	71	34	31	1.53
	59 61	73	9	15	19	25	28	32	35	40	45	57	92	34	31	1.61
SOUTH DAKOTA																
BLACK HILLS	WINTER	6	5	5	5	6	6	7	7	7	10	10	10	7	7	1.32
	SPRING	6	15	16	16	25	25	27	38	38	45	45	64	34	31	1.66
	SUMMER	6	16	16	16	19	19	27	45	45	76	76	99	46	37	2.09
	AUTUMN	3	10	1	11	11	11	16	16	16	16	19	18	15	14	1.36
	58 58	21	5	6	7	10	14	18	24	27	42	64	99	27	19	2.34
TENNESSEE																
STEWART COUNTY	WINTER	6	35	35	35	38	38	42	45	45	54	54	73	47	45	1.30
	SPRING	6	28	32	32	34	34	36	38	38	76	76	102	52	46	1.65
	SUMMER	6	37	38	38	64	64	83	90	90	107	107	137	84	78	1.57
	AUTUMN	4	48	1	50	50	54	54	54	59	59	64	62	55	54	1.12
	59 59	22	28	33	35	38	45	51	57	64	83	99	137	60	55	1.53
UTAH																
BRYCE CANYON PK	WINTER	13	8	8	11	12	13	16	19	35	38	54	155	32	21	2.38
	SPRING	14	4	4	9	11	16	18	19	23	59	76	129	33	20	2.76
	SUMMER	12	10	11	27	45	54	99	107	139	254	359	403	135	82	3.09
	AUTUMN	8	5	5	6	6	9	13	45	54	54	90	219	52	24	3.83
	58 59	47	4	8	10	13	17	27	40	54	99	151	403	62	30	3.30
VERMONT																
ORANGE COUNTY	WINTER	12	19	19	23	30	32	34	36	38	45	50	52	35	34	1.36
	SPRING	13	22	21	27	38	42	48	51	54	59	76	81	48	44	1.53
	SUMMER	11	20	23	25	27	34	37	38	45	54	64	67	39	37	1.47
	AUTUMN	14	18	19	34	35	38	40	42	45	54	61	61	41	39	1.38
	60 61	50	18	22	26	33	35	36	42	46	53	61	81	41	39	1.44
VIRGINIA																
SHENANDOAH PARK	WINTER	23	9	14	16	17	18	21	23	26	32	45	53	25	23	1.54
	SPRING	29	13	16	21	25	28	31	34	40	45	64	97	36	32	1.65
	SUMMER	24	25	26	30	32	34	35	37	39	42	50	57	36	35	1.24
	AUTUMN	25	12	16	26	28	30	31	33	37	45	52	56	33	31	1.49
	58 61	101	9	15	20	25	28	31	34	37	42	50	97	33	30	1.54
WASHINGTON																
CLALLAM COUNTY	WINTER	4	6	1	6	6	8	8	8	13	13	19	18	11	10	1.63
	SPRING	6	8	8	8	8	8	9	10	10	11	11	14	10	10	1.23
	SUMMER	6	9	9	9	10	10	11	13	13	18	18	18	13	13	1.35
	AUTUMN	5	8	8	8	16	16	21	21	23	23	45	42	21	19	1.83
	61 61	21	6	7	8	9	10	11	13	16	18	21	42	14	12	1.58
WEST VIRGINIA																
WEBSTER COUNTY	WINTER	12	15	15	16	23	28	29	30	31	34	36	34	27	26	1.33
	SPRING	12	18	18	19	26	27	29	30	32	38	70	76	35	32	1.55
	SUMMER	10	18	19	28	30	31	32	38	45	54	59	62	38	36	1.46
	AUTUMN	11	16	16	17	18	19	22	23	27	32	38	39	24	23	1.32
	58 59	45	15	17	19	23	27	29	30	33	36	54	76	31	28	1.46
WISCONSIN																
DOOR COUNTY	WINTER	12	7	7	8	15	16	23	25	27	38	45	65	25	20	2.05
	SPRING	10	10	11	16	19	27	32	35	38	54	76	172	46	32	2.28
	SUMMER	12	18	19	21	25	27	30	32	35	45	50	49	32	30	1.39
	AUTUMN	10	7	7	9	11	13	16	27	42	45	64	68	29	22	2.28
	58 60	44	7	8	14	18	24	26	32	37	43	64	172	33	26	2.01
WYOMING																
YELLOWSTONE PARK	WINTER	7	1	1	1	2	3	4	4	5	5	5	9	4	3	2.04
	SPRING	7	2	2	2	2	4	12	12	13	23	23	25	11	7	2.93
	SUMMER	7	8	8	8	13	16	19	19	20	22	22	22	17	16	1.44
	AUTUMN	5	1	1	1	3	3	5	5	9	9	11	10	6	4	2.56
	61 61	26	1	1	2	4	4	8	11	12	19	21	25	10	7	2.65

TABLE 2.8 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE REGIONAL AND NATIONAL SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57	2357		2.8	3.8	4.8	5.7	6.9	8.3	10.1	12.9	18.0	79.0	9.2	7.0	2.10
	58	2445	.5	4.0	5.2	6.3	7.5	8.8	10.3	12.4	15.8	23.1	123.9	11.9	9.3	2.01
	59	2784		3.1	4.2	5.4	6.5	7.7	9.1	11.1	14.0	19.9	109.6	10.3	7.8	2.11
	60	3275	.2	2.9	4.1	5.3	6.4	7.4	8.8	10.4	13.3	18.6	92.5	9.7	7.5	2.06
	61	3600		2.8	3.8	4.8	5.7	6.8	8.0	9.6	12.1	17.5	118.1	9.0	6.9	2.10
	57 61	14461		3.0	4.2	5.2	6.3	7.4	8.8	10.6	13.5	19.3	123.9	9.9	7.6	2.08
NEW ENGLAND	57	248	.8	2.5	3.6	4.6	5.5	6.3	7.3	8.5	10.6	14.2	70.0	7.8	6.2	1.97
	58	311	1.6	3.7	4.8	5.6	6.5	7.7	9.4	11.1	14.1	19.8	103.2	10.6	8.3	1.95
	59	358	.5	3.0	4.0	5.1	6.3	7.2	8.2	9.7	12.0	17.0	104.0	9.2	7.0	2.06
	60	469	.2	2.5	3.6	4.3	5.5	6.5	7.4	8.8	10.9	14.8	44.0	7.8	6.2	2.05
	61	479	.7	3.0	3.8	4.8	5.7	6.5	7.6	8.7	11.1	15.2	50.9	8.3	6.7	1.93
	57 61	1865	.2	2.8	3.9	4.9	5.8	6.8	7.9	9.4	11.6	16.2	104.0	8.7	6.8	2.01
MID ATLANTIC	57	292	1.6	3.4	4.7	5.7	7.0	8.1	9.6	11.7	14.1	19.2	41.0	10.0	8.2	1.89
	58	269	1.0	3.7	5.5	6.6	7.7	9.0	10.6	12.4	14.4	20.3	49.0	10.8	8.9	1.90
	59	510	.8	3.2	4.3	5.3	6.5	7.9	9.3	11.2	14.2	20.0	109.6	10.7	8.0	2.08
	60	561	.8	2.5	3.5	4.6	5.9	7.1	8.3	9.8	12.2	17.6	81.9	8.8	6.8	2.09
	61	593	.7	2.7	3.9	5.0	6.1	7.4	8.7	10.1	12.5	17.3	55.3	9.1	7.1	2.06
	57 61	2225	.7	2.9	4.1	5.3	6.5	7.7	9.0	10.8	13.4	18.7	109.6	9.7	7.6	2.05
MID EAST	57	197	1.2	3.3	4.5	5.2	6.1	7.7	9.6	11.6	14.3	18.7	53.1	10.1	7.9	2.01
	58	194	1.0	4.1	5.2	6.3	7.6	9.0	10.4	12.5	15.2	22.3	65.2	11.3	9.1	1.93
	59	244	1.5	4.2	5.5	6.5	7.7	8.6	10.7	12.9	15.5	24.3	66.1	12.0	9.5	1.93
	60	273	1.6	4.0	5.2	6.0	7.0	8.5	10.1	12.4	15.8	22.3	59.8	11.3	8.9	1.96
	61	296	.3	2.9	3.9	5.1	6.0	7.2	8.3	10.1	12.2	20.0	95.3	9.6	7.3	2.09
	57 61	1204	.3	3.6	4.8	5.8	6.8	8.1	9.7	11.7	14.5	21.4	95.3	10.8	8.4	2.00
SOUTH EAST	57	253		3.4	4.2	5.0	6.0	7.3	8.2	9.3	11.9	18.2	56.0	8.9	7.0	2.10
	58	292	.5	4.7	6.0	7.5	8.5	9.9	12.0	15.6	22.0	35.9	123.9	16.1	11.4	2.20
	59	298	.8	3.3	4.8	6.0	7.0	8.1	9.7	11.7	15.4	22.0	85.1	11.6	8.6	2.10
	60	323	1.6	4.2	5.4	6.4	7.7	9.1	10.6	13.0	16.3	26.7	92.5	12.8	9.7	2.03
	61	395	.8	3.1	4.0	4.9	5.8	6.9	8.0	9.6	12.1	19.0	67.6	9.2	7.1	2.01
	57 61	1561		3.6	4.7	5.8	6.9	8.1	9.5	11.6	15.3	23.1	123.9	11.6	8.6	2.13
MID WEST	57	422	.7	3.5	4.5	5.5	6.5	7.7	9.0	10.7	13.5	18.4	53.3	9.7	7.9	1.90
	58	411	1.5	5.4	6.9	8.3	9.6	10.9	12.6	14.7	16.8	22.2	78.0	13.2	11.1	1.78
	59	468	1.6	4.6	5.9	7.0	8.1	9.3	10.5	12.5	15.0	20.7	49.8	11.2	9.5	1.79
	60	498	1.7	4.2	5.5	6.6	7.5	8.5	9.6	11.1	13.4	16.6	61.2	9.9	8.5	1.73
	61	528	1.5	4.3	5.4	6.4	7.2	8.3	9.5	10.9	13.5	17.7	58.5	10.1	8.6	1.76
	57 61	2327	.7	4.2	5.5	6.6	7.7	8.9	10.1	11.9	14.6	19.0	78.0	10.7	9.0	1.82
GREAT PLAINS	57	254	.5	2.6	3.4	4.0	4.6	5.1	6.0	7.3	9.0	12.2	30.1	6.6	5.5	1.86
	58	238	1.6	4.0	5.2	6.0	7.0	8.0	9.2	10.7	13.0	18.3	66.7	10.0	8.3	1.82
	59	242	.8	2.7	3.5	4.2	5.1	5.8	6.6	8.2	10.6	15.3	87.5	7.8	6.1	1.99
	60	275	.8	3.1	3.9	5.0	6.1	7.0	8.3	9.7	11.4	15.7	39.4	8.4	6.9	1.87
	61	302	.8	2.6	3.6	4.3	5.0	5.8	6.7	7.9	9.8	12.6	31.9	7.1	5.9	1.87
	57 61	1311	.5	2.9	3.8	4.6	5.4	6.3	7.3	8.9	10.7	14.7	87.5	7.9	6.4	1.92
GULF SOUTH	57	247	.8	2.2	2.7	3.5	4.3	5.3	7.0	8.8	11.8	17.0	41.6	8.0	5.8	2.22
	58	247	1.8	4.0	4.7	5.6	6.6	7.6	8.4	10.2	12.4	16.6	35.5	9.2	7.[illegible]	1.75
	59	236		1.9	2.8	3.6	4.5	5.4	6.5	8.0	10.3	13.4	52.0	7.0	5.3	2.21
	60	301	.8	2.9	3.9	4.9	5.8	6.6	7.6	9.0	10.8	14.2	41.9	8.0	6.6	1.87
	61	417		2.3	2.8	3.5	4.3	5.1	6.0	7.2	8.9	13.1	78.4	6.7	5.1	2.07
	57 61	1448		2.4	3.2	4.1	5.0	6.0	7.1	8.5	10.7	14.5	78.4	7.7	6.0	2.07
ROCKY MOUNTAIN	57	123		1.7	2.6	3.2	4.2	5.0	6.3	8.0	9.8	14.8	26.4	6.7	4.9	2.44
	58	124	.9	1.9	3.7	4.3	5.4	6.1	7.5	8.7	10.7	15.7	32.6	7.9	6.1	2.09
	59	127	.8	1.9	2.7	3.7	4.9	6.1	7.9	10.3	14.4	23.6	58.4	9.7	6.3	2.52
	60	123	.8	1.6	2.5	3.6	5.3	7.0	8.7	10.6	12.2	17.0	36.8	8.5	6.0	2.46
	61	122	.7	1.4	2.2	3.6	4.2	5.6	6.9	8.1	11.0	17.0	46.8	7.9	5.1	2.61
	57 61	619		1.6	2.7	3.7	4.7	5.9	7.5	8.9	11.5	16.6	58.4	8.2	5.7	2.44
PACIFIC COAST	57	321	.8	2.9	4.3	5.6	6.8	8.3	10.6	13.4	17.6	27.3	79.0	12.5	8.8	2.29
	58	359	1.8	3.8	4.9	6.0	7.5	8.7	10.8	13.5	21.5	31.0	80.4	13.8	9.9	2.22
	59	301	.9	2.9	3.9	5.1	6.4	8.2	10.2	13.1	18.5	27.9	99.2	12.0	8.5	2.29
	60	452	.8	2.7	3.8	4.9	6.0	7.1	8.9	12.6	16.8	25.0	83.5	11.3	7.9	2.31
	61	468	.8	2.6	3.7	4.4	5.6	7.1	9.3	12.6	16.8	24.6	118.1	11.2	7.6	2.40
	57 61	1901	.8	2.9	4.0	5.1	6.4	7.8	9.9	13.0	17.8	27.2	118.1	12.1	8.4	2.32

TABLE 2.9 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA	57	25	.9	4.2	5.3	6.9	7.4	9.0	9.4	10.1	11.3	17.0	21.4	9.1	7.7	1.92
	58	45	.5	4.9	6.9	8.8	10.3	13.7	17.0	32.9	49.2	60.6	123.9	26.6	15.5	3.01
	59	51	2.7	3.8	6.3	7.2	8.0	9.6	11.4	14.4	16.3	23.6	85.1	13.8	10.3	2.03
	60	50	2.6	3.8	5.6	6.9	8.2	10.3	13.3	20.9	32.9	50.0	92.5	18.9	12.2	2.50
	61	52	1.8	3.5	5.3	6.2	7.2	8.3	9.6	11.1	15.1	21.8	42.6	10.6	8.5	1.96
	57 61	223	.5	4.0	5.8	7.0	8.2	9.6	11.3	14.6	20.8	37.4	123.9	16.3	10.8	2.37
ALASKA	57	26	4.0	4.8	5.3	6.7	7.4	8.2	10.3	12.2	13.9	15.3	31.2	9.9	8.7	1.63
	58	26	2.4	3.2	3.4	3.8	4.3	4.9	6.3	7.4	10.3	12.9	15.9	6.6	5.7	1.75
	59	25	1.7	2.3	2.7	3.6	3.8	4.9	5.3	6.3	7.9	10.3	14.3	5.5	4.7	1.74
	60	26	1.7	2.4	2.5	2.6	3.5	4.0	4.4	5.3	7.9	8.8	14.6	5.0	4.3	1.78
	61	25	.8	1.7	2.4	2.9	3.2	3.7	3.9	4.4	5.3	8.8	19.3	4.5	3.6	1.97
	57 61	128	.8	2.4	3.1	3.6	4.1	4.7	5.7	7.5	8.8	12.9	31.2	6.3	5.2	1.90
ARIZONA	57	26	3.7	5.3	6.9	7.9	8.3	10.3	15.7	20.0	29.2	31.7	58.7	16.4	12.5	2.10
	58	23	5.7	6.0	7.8	8.5	9.6	11.6	17.0	21.8	25.0	30.4	53.3	16.2	13.4	1.86
	59	25	3.9	6.3	7.7	8.5	10.8	12.2	20.0	30.4	34.9	41.2	44.6	19.4	15.1	2.11
	60	50	.8	3.3	3.8	5.6	6.7	8.8	9.9	13.7	19.0	38.9	55.7	13.2	9.0	2.44
	61	49	.9	2.5	3.5	4.5	5.6	7.1	11.3	14.4	19.0	25.8	28.6	10.7	7.6	2.43
	57 61	173	.8	3.5	5.1	6.5	7.8	9.6	12.2	17.3	24.7	32.0	58.7	14.3	10.2	2.34
ARKANSAS	57	26	2.4	2.8	3.0	3.2	4.1	4.5	4.9	5.2	8.3	10.3	17.4	5.9	5.0	1.75
	58	26	2.0	4.2	4.9	6.3	6.9	7.9	9.1	9.7	14.4	20.0	31.4	9.8	8.2	1.85
	59	26	2.3	3.0	4.5	5.1	5.5	6.1	6.9	7.4	8.5	10.3	32.5	7.5	6.3	1.72
	60	26	.8	2.3	3.2	4.3	4.7	5.1	6.0	6.9	10.8	11.7	25.6	6.7	5.4	2.00
	61	25	1.6	2.7	3.0	3.8	4.9	6.0	6.6	7.4	9.6	14.4	21.7	6.9	5.7	1.90
	57 61	129	.8	2.8	3.5	4.4	5.0	5.8	6.7	7.9	9.7	13.5	32.5	7.4	6.0	1.87
CALIFORNIA	57	169	1.7	3.2	5.2	6.4	8.2	10.6	12.8	16.6	23.6	33.9	79.0	15.2	10.7	2.32
	58	216	1.8	3.8	4.9	6.0	7.5	9.1	11.5	16.1	25.1	35.9	80.4	15.2	10.5	2.35
	59	174	1.6	3.4	4.7	6.0	8.5	10.1	12.8	16.1	22.8	29.3	99.2	13.8	10.1	2.24
	60	230	.8	3.3	4.4	6.0	7.2	8.8	12.3	15.6	20.0	28.7	83.5	13.1	9.4	2.32
	61	226	1.3	3.2	4.1	5.1	6.4	8.2	10.8	14.7	19.1	26.8	118.1	12.6	8.8	2.32
	57 61	1015	.8	3.3	4.5	5.9	7.2	9.4	12.0	15.8	21.7	30.2	118.1	13.9	9.8	2.32
COLORADO	57	24	2.6	2.7	5.1	6.9	8.8	9.4	10.0	14.4	15.7	20.0	26.4	10.8	9.1	1.85
	58	25	5.6	5.8	6.1	7.4	7.8	8.4	8.8	12.2	15.7	25.0	26.2	11.1	9.7	1.65
	59	24	4.5	4.9	6.6	7.1	8.3	10.3	13.3	17.0	25.8	38.9	58.4	16.3	12.3	2.12
	60	25	3.0	7.6	8.1	8.8	9.6	10.8	11.7	14.4	16.1	25.8	29.9	12.7	11.2	1.66
	61	25	5.0	5.4	5.7	6.2	6.6	7.4	8.3	11.6	13.3	34.9	36.4	11.7	9.4	1.85
	57 61	123	2.6	5.3	6.2	7.2	8.1	9.0	10.7	13.5	16.2	25.9	58.4	12.5	10.3	1.83
CONNECTICUT	57	75	1.7	4.2	5.1	5.7	6.1	7.4	8.8	10.7	12.2	17.0	44.0	9.3	7.8	1.77
	58	54	3.0	4.5	5.4	6.0	6.8	7.8	9.4	10.8	12.1	17.8	45.6	10.1	8.5	1.73
	59	74	2.6	4.0	5.3	6.2	7.5	8.5	9.4	10.3	12.2	17.0	85.6	10.5	8.5	1.80
	60	101	1.6	3.6	5.0	6.0	6.8	8.0	9.5	11.1	13.1	16.6	44.0	9.8	8.1	1.83
	61	94	2.4	3.6	4.6	5.2	5.9	6.7	7.6	8.5	10.0	13.9	25.9	7.9	7.0	1.63
	57 61	438	1.6	4.0	5.0	5.8	6.5	7.6	8.8	10.3	12.0	16.1	85.6	9.5	7.9	1.76
DELAWARE	57	25	3.8	5.3	6.7	7.8	8.5	9.6	10.3	12.2	14.4	23.6	41.0	12.2	10.1	1.80
	58	23	3.0	5.3	7.1	8.1	10.3	13.3	15.3	17.0	20.0	27.9	38.9	14.3	12.1	1.84
	60	25	5.2	9.0	9.6	10.3	14.4	17.4	18.1	19.3	20.0	32.9	48.5	17.5	15.5	1.63
	61	23	3.1	4.9	7.6	8.1	8.6	10.3	11.3	12.2	14.4	20.0	55.3	12.8	10.5	1.80
	57 61	96	3.0	6.3	7.5	8.6	9.6	11.1	13.6	16.6	19.3	23.6	55.3	14.2	11.9	1.80
DIST. OF COL.	58	24	6.2	6.7	7.9	8.8	10.8	11.7	12.8	14.4	17.0	22.4	27.9	12.9	11.8	1.52
	59	22	3.5	4.5	5.1	7.4	8.1	8.8	9.8	12.2	17.0	25.8	45.4	12.2	9.7	1.93
	60	22	5.6	6.3	8.1	10.3	11.3	12.2	14.4	21.2	27.9	32.9	48.6	17.3	14.3	1.84
	61	24	3.1	3.8	6.3	7.0	8.8	10.3	12.9	18.0	20.0	29.6	31.7	13.5	10.9	2.01
	58 61	92	3.1	5.5	6.9	8.2	9.5	11.1	12.8	15.1	21.4	27.0	48.6	13.9	11.6	1.84

TABLE 2.9 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
FLORIDA	57	50		3.0	3.5	3.9	4.4	4.9	5.3	6.3	7.9	8.8	11.1	5.5	4.7	2.21
	58	52	2.8	4.7	5.6	6.7	7.4	8.8	9.7	11.6	14.4	20.0	33.2	10.9	9.2	1.76
	59	74	2.3	3.2	4.1	4.7	5.4	6.3	7.1	8.4	10.0	12.2	27.8	7.5	6.4	1.72
	60	52	1.8	3.2	4.7	5.5	6.3	7.1	8.2	9.7	14.4	18.5	29.9	9.2	7.6	1.87
	61	98	1.6	3.0	3.6	4.0	4.4	4.9	5.7	6.8	7.8	10.0	15.1	5.9	5.3	1.59
	57 61	326		3.2	4.0	4.6	5.1	6.1	7.0	8.2	9.8	13.3	33.2	7.5	6.3	1.87
GEORGIA	57	52	3.5	4.0	4.4	6.0	7.1	7.7	8.1	8.5	10.3	14.8	22.1	8.1	7.3	1.57
	58	71	2.1	4.4	5.1	5.9	7.5	8.5	9.6	12.2	20.0	30.4	70.0	13.4	9.8	2.09
	59	47	1.5	2.9	3.8	6.3	7.6	8.5	9.4	11.6	16.1	20.0	46.5	11.0	8.4	2.17
	60	73	2.5	4.0	5.2	5.9	6.8	8.8	10.1	12.4	13.8	20.0	36.7	10.5	8.7	1.85
	61	75	1.9	3.1	3.8	4.4	5.6	6.5	7.4	8.4	10.3	14.4	36.5	8.2	6.6	1.85
	57 61	318	1.5	3.7	4.5	5.7	6.7	7.8	8.6	10.2	13.2	19.7	70.0	10.3	8.1	1.93
HAWAII	57	25	1.5	1.7	2.2	2.4	2.6	2.9	3.2	4.3	4.9	6.0	6.7	3.5	3.2	1.57
	58	23	4.1	4.3	5.3	5.8	6.3	7.6	8.1	8.6	9.3	11.3	14.3	7.5	7.1	1.38
	59	25	.9	2.7	2.9	3.2	3.8	5.1	6.3	7.4	8.0	8.8	12.1	5.4	4.6	1.83
	60	26	1.9	2.0	2.6	3.0	3.3	3.7	4.6	4.9	5.3	5.8	8.6	4.1	3.8	1.48
	61	25	.8	.9	1.5	1.7	2.2	2.5	2.6	3.8	4.5	6.9	8.0	3.0	2.5	1.91
	57 61	124	.8	1.7	2.4	2.7	3.3	4.1	4.9	5.7	6.9	8.4	14.3	4.6	3.9	1.83
IDAHO	57	26	2.5	4.0	4.3	4.8	5.1	6.3	8.3	10.8	12.2	14.4	23.7	8.4	7.1	1.79
	58	25	2.9	4.5	5.3	6.9	7.4	9.0	9.6	10.3	14.4	17.0	32.6	10.4	8.9	1.76
	59	26	4.6	5.3	6.0	8.1	9.3	10.7	11.8	14.4	18.5	23.6	33.6	12.6	10.8	1.76
	60	24	4.3	5.3	6.9	7.9	9.6	10.6	11.3	12.2	13.7	21.8	36.8	12.0	10.5	1.66
	61	25	3.4	4.2	4.9	6.3	7.0	8.1	8.8	10.9	12.2	17.0	30.1	9.4	8.1	1.70
	57 61	126	2.5	4.4	5.2	6.4	7.6	8.9	10.4	11.7	14.2	18.8	36.8	10.6	9.0	1.76
ILLINOIS	58	68	2.7	7.1	8.8	10.3	13.0	15.1	17.5	21.4	27.9	40.3	68.0	19.2	15.5	1.93
	59	45	1.8	3.8	6.0	7.6	8.4	9.9	12.2	14.0	16.0	20.7	21.9	10.9	9.2	1.87
	60	21	7.4	8.1	9.3	10.3	12.2	14.4	15.4	16.5	18.5	23.6	26.5	14.5	13.6	1.42
	61	75	2.5	4.8	6.0	7.2	9.1	10.2	11.6	14.8	17.8	26.5	58.5	13.0	10.6	1.89
	58 61	209	1.8	5.5	7.1	8.7	10.0	12.0	14.1	16.3	20.0	27.4	68.0	14.7	11.9	1.92
INDIANA	57	96	1.9	3.8	4.8	6.1	7.4	8.5	9.7	11.3	15.3	19.1	36.0	10.4	8.5	1.88
	58	70	3.2	7.0	10.4	11.3	12.2	13.5	14.7	16.0	17.6	22.2	78.0	15.1	13.3	1.61
	59	92	1.6	4.3	6.2	7.5	8.7	10.1	12.2	14.4	19.4	22.6	37.0	12.4	10.2	1.92
	60	125	2.0	5.2	6.7	8.0	9.0	9.8	10.9	12.6	15.1	19.4	43.2	11.2	9.9	1.65
	61	127	1.9	4.3	5.4	6.7	7.7	8.8	10.1	12.0	15.8	19.3	45.6	10.8	9.0	1.83
	57 61	510	1.6	4.5	6.1	7.4	8.6	9.9	11.4	13.6	16.3	20.7	78.0	11.7	9.9	1.81
IOWA	57	26	.6	3.5	4.2	4.8	5.0	5.6	6.9	8.1	10.3	12.2	18.3	7.3	6.0	2.00
	58	46	3.8	5.6	6.1	6.9	7.6	8.3	9.3	10.3	12.9	17.0	29.6	10.1	9.1	1.58
	59	25	1.8	5.3	5.6	6.0	6.3	8.8	10.3	13.3	18.0	23.6	25.5	10.8	8.9	1.92
	60	25	2.0	3.8	4.9	8.8	9.8	10.9	11.6	13.3	17.0	23.6	39.4	12.1	9.8	2.02
	61	50	3.3	4.3	4.9	5.4	6.1	7.4	8.3	9.4	10.9	12.8	23.6	8.1	7.4	1.55
	57 61	172	.6	4.3	5.1	5.8	6.7	8.0	9.1	10.6	12.4	18.1	39.4	9.5	8.1	1.78
KANSAS	57	26	1.8	2.6	2.8	3.1	3.3	3.7	4.0	4.2	4.5	4.9	6.1	3.7	3.6	1.31
	58	22	3.3	5.3	6.3	7.1	8.1	9.0	9.6	10.0	11.3	12.2	13.2	8.5	8.1	1.40
	59	45	.8	2.3	3.1	3.8	4.5	5.1	5.5	6.0	6.6	8.3	17.6	5.3	4.7	1.71
	60	48	2.7	3.7	5.0	6.1	6.9	7.8	8.6	9.8	11.1	13.7	21.3	8.3	7.4	1.61
	61	47	.9	2.6	3.4	4.2	4.9	5.7	6.4	7.1	8.2	10.3	22.8	6.3	5.4	1.82
	57 61	188	.8	2.8	3.5	4.2	4.9	5.7	6.6	7.6	9.0	11.4	22.8	6.5	5.6	1.74
KENTUCKY	61	21	4.0	5.3	5.7	6.1	7.8	8.8	9.8	10.8	11.7	14.4	42.7	10.9	9.1	1.74
LOUISANA	57	50	2.4	4.0	5.8	7.1	8.5	10.3	11.5	12.9	17.0	25.0	41.6	12.1	9.9	1.91
	58	25	1.8	6.3	7.0	8.3	9.3	12.2	12.9	14.0	15.7	20.0	23.5	11.6	10.2	1.76
	59	51	.7	3.0	3.8	5.3	7.0	6.1	8.8	10.9	12.6	15.7	28.8	8.7	7.1	2.04
	60	52	3.9	5.4	6.2	7.1	8.2	9.3	10.1	11.3	12.9	17.0	41.9	10.9	9.5	1.64
	61	50	3.3	4.9	6.5	7.1	8.1	9.4	10.3	12.9	14.9	18.5	25.0	10.8	9.6	1.63
	57 61	228	.7	4.4	5.9	7.0	8.0	9.2	10.6	12.3	13.9	18.8	41.9	10.7	9.1	1.82

TABLE 2.9 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MAINE	58	23	4.8	5.0	6.0	6.6	7.1	9.8	11.3	15.3	17.0	20.0	33.4	12.0	10.3	1.75
	59	21	2.2	3.0	3.4	3.7	4.9	6.3	7.4	8.3	9.6	12.2	19.5	7.0	6.0	1.75
	60	24	3.1	3.8	4.3	4.9	5.8	6.3	7.0	8.1	8.8	12.2	15.0	7.0	6.5	1.50
	61	26	1.8	2.3	2.7	3.6	4.5	5.7	6.3	6.9	8.1	10.9	28.3	6.4	5.3	1.86
	58 61	94	1.8	3.1	3.9	5.0	5.8	6.5	7.2	8.6	10.6	15.7	33.4	8.1	6.7	1.81
MARYLAND	57	26	2.5	5.3	6.3	8.1	8.8	9.9	11.6	12.8	14.4	18.5	33.6	11.3	9.9	1.70
	58	25	3.5	7.7	8.2	9.2	9.9	11.6	12.6	13.7	14.4	21.8	35.5	12.6	11.3	1.58
	59	25	6.9	8.0	8.5	10.3	11.3	12.9	14.4	16.4	18.5	23.6	31.3	14.2	13.1	1.51
	60	25	3.3	5.3	6.0	7.4	8.8	9.7	10.3	15.7	18.5	25.8	55.0	13.2	10.4	1.95
	61	26	5.4	8.0	8.5	9.8	10.7	11.8	13.1	14.0	17.0	20.0	42.0	13.8	12.4	1.54
	57 61	127	2.5	6.3	7.9	8.7	9.8	11.1	12.5	14.1	16.8	21.5	55.0	13.0	11.4	1.67
MASSACHUSETTS	57	124	1.7	2.7	3.8	4.8	5.7	6.5	7.2	8.3	9.9	13.6	33.3	7.4	6.2	1.81
	58	122	2.4	3.9	4.8	5.7	6.9	8.2	9.6	11.7	16.3	22.7	103.2	11.8	8.8	2.03
	59	191	.5	3.2	4.4	5.8	6.8	7.6	8.6	10.7	13.3	18.2	104.0	10.0	7.6	2.08
	60	272	.2	2.1	3.3	4.1	5.0	6.3	7.1	8.4	10.2	14.0	35.8	7.3	5.7	2.13
	61	289	.9	3.3	4.1	5.1	6.1	7.2	8.3	10.0	12.1	18.0	50.9	9.3	7.3	1.96
	57 61	998	.2	2.9	3.9	4.9	6.0	7.0	8.0	9.5	12.0	16.9	104.0	9.0	6.9	2.05
MICHIGAN	57	97	.7	3.1	3.5	4.5	5.4	6.0	6.9	8.1	9.8	12.2	27.0	7.1	6.0	1.82
	58	75	1.5	4.1	5.0	6.0	6.8	8.0	9.3	10.3	12.5	15.4	22.4	8.9	7.8	1.68
	59	78	3.6	5.3	6.6	7.2	8.6	9.4	10.0	11.5	13.3	17.8	29.1	10.4	9.4	1.55
	60	102	2.3	3.3	4.3	5.1	6.0	6.9	7.7	8.7	10.2	13.9	27.3	7.8	6.8	1.68
	61	74	2.4	4.7	5.3	6.1	7.1	8.2	9.2	10.3	11.8	13.9	44.5	9.0	8.1	1.58
	57 61	426	.7	3.6	4.8	5.6	6.5	7.4	8.7	9.8	11.5	14.3	44.5	8.5	7.4	1.71
MINNESOTA	57	49	.9	2.7	4.0	4.8	5.5	6.3	6.9	7.6	8.6	11.3	28.0	6.9	5.9	1.81
	58	50	3.4	4.3	5.1	5.7	6.3	7.1	8.5	9.8	11.7	17.0	66.7	10.5	8.1	1.87
	59	52	.8	2.5	3.2	4.1	4.4	5.0	5.7	6.5	7.4	11.6	15.8	5.9	5.0	1.81
	60	51	3.1	4.2	5.0	5.8	6.6	7.9	9.1	9.7	10.3	13.3	27.4	8.8	7.9	1.62
	61	78	.8	2.7	3.4	3.8	4.7	5.4	6.5	7.4	9.3	11.3	30.7	6.6	5.5	1.86
	57 61	280	.8	3.2	3.9	4.7	5.4	6.2	7.0	8.4	9.8	12.5	66.7	7.6	6.3	1.85
MISSISSIPPI	57	24	.8	.8	1.8	2.0	3.2	3.6	4.0	5.3	7.0	12.2	22.0	5.3	3.7	2.44
	58	24	2.5	2.7	3.8	4.9	6.0	6.9	8.8	11.6	14.4	18.0	18.5	8.7	7.2	1.92
	59	26	.8	2.6	3.4	3.8	4.8	5.8	6.7	7.0	8.1	10.9	44.3	7.2	5.4	2.04
	60	24	1.6	2.7	3.6	4.0	5.3	5.6	6.0	6.9	7.9	12.2	17.7	6.3	5.5	1.71
	61	20	1.6	1.7	2.9	3.2	3.8	4.5	6.3	7.8	8.5	10.3	35.6	7.5	5.2	2.22
	57 61	118	.8	2.3	3.0	3.6	4.3	5.4	6.4	7.3	8.8	13.3	44.3	7.0	5.3	2.11
MISSOURI	57	51	2.2	3.2	5.3	7.4	8.2	9.4	10.8	12.2	14.4	18.0	30.1	10.6	9.1	1.80
	58	47	5.5	7.9	9.3	10.6	11.9	13.5	15.7	19.0	22.2	26.5	37.4	15.7	14.0	1.60
	59	46	.9	5.5	6.1	8.0	9.0	10.1	11.8	13.9	18.5	25.0	87.5	13.9	10.6	2.09
	60	52	5.2	6.3	7.0	7.8	8.5	9.6	11.6	14.7	16.7	20.9	25.5	11.7	10.6	1.55
	61	50	3.4	4.5	5.6	6.1	6.9	7.9	9.3	11.4	17.8	22.4	31.9	10.8	9.1	1.78
	57 61	246	.9	5.4	6.5	7.7	8.7	10.1	11.8	14.2	17.9	22.6	87.5	12.4	10.5	1.80
MONTANA	57	25		.8	.9	1.6	1.8	2.0	2.4	2.7	3.0	3.8	4.2	2.2	1.7	2.43
	58	26	.9	1.5	1.6	1.8	1.9	2.7	3.6	4.0	4.5	6.3	13.5	3.8	2.9	2.01
	59	25	.8	.9	1.4	1.7	1.9	2.2	2.5	2.9	3.1	4.9	5.8	2.4	2.1	1.74
	60	26	.8	.9	1.5	1.6	1.6	1.7	2.5	2.6	3.4	3.8	13.6	2.8	2.2	1.87
	61	25	.8	.8	.9	1.5	1.6	2.2	2.7	3.4	3.8	4.5	8.4	2.7	2.1	2.04
	57 61	127		.8	1.4	1.6	1.8	2.2	2.6	3.0	3.7	4.4	13.6	2.8	2.2	2.04
NEBRASKA	57	52	2.4	3.3	3.9	4.4	4.8	5.1	5.6	6.3	8.1	10.0	17.5	6.2	5.6	1.55
	58	22	4.1	4.5	5.3	6.7	7.4	8.1	8.8	9.8	12.9	14.4	16.6	9.0	8.4	1.50
	59	23	2.4	2.7	5.6	6.1	6.9	8.1	8.8	9.8	10.8	12.2	25.4	8.6	7.5	1.70
	60	51	1.5	2.8	3.2	3.8	4.5	5.7	6.3	7.1	9.4	11.3	17.0	6.3	5.4	1.74
	61	26	2.5	3.5	4.0	4.5	5.5	6.1	7.4	8.8	10.8	11.7	17.1	7.1	6.3	1.66
	57 61	174	1.5	3.1	4.0	4.6	5.3	6.0	6.8	8.3	9.8	11.9	25.4	7.0	6.2	1.67

TABLE 2.9 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEVADA	57	24	2.5	3.2	4.7	5.0	5.8	6.9	7.9	9.6	10.9	14.4	16.7	7.9	7.0	1.67
	58	22	3.5	4.5	6.3	7.4	8.0	8.5	9.6	10.9	13.3	15.7	19.6	9.5	8.7	1.54
	60	21	2.6	4.2	4.7	5.1	5.5	6.0	6.3	7.4	8.8	16.1	21.2	8.0	6.9	1.68
	61	23	4.0	4.1	4.5	6.3	6.7	7.4	9.0	9.6	10.0	14.4	30.0	9.1	7.9	1.70
	57 61	90	2.5	4.1	4.8	5.5	6.4	7.2	8.3	9.6	11.6	15.1	30.0	8.6	7.6	1.65
NEW HAMPSHIRE	58	20	3.4	3.6	4.5	5.0	5.5	5.8	6.1	7.4	10.3	12.2	25.8	8.0	6.7	1.72
	59	20	2.0	2.7	3.0	3.8	4.5	4.8	5.1	5.8	7.4	9.8	19.5	5.9	5.1	1.69
	60	21	2.3	3.0	4.0	4.3	4.9	6.5	7.0	7.4	9.6	14.4	27.1	7.6	6.3	1.81
	61	21	2.2	3.2	4.2	4.5	5.0	6.0	6.7	7.4	8.8	12.2	16.0	6.9	6.2	1.63
	58 61	82	2.0	3.0	3.9	4.5	5.0	5.6	6.2	7.1	9.3	12.2	27.1	7.1	6.0	1.72
NEW JERSEY	57	71	1.6	3.0	6.3	7.6	8.5	9.6	11.1	13.1	15.7	20.0	35.8	11.0	9.2	1.92
	58	70	1.0	2.6	3.2	4.4	5.5	6.2	7.6	9.6	12.9	18.0	27.8	8.4	6.6	2.08
	59	50	4.3	5.6	6.9	7.8	8.8	10.3	11.9	14.9	17.3	19.0	56.2	12.2	10.6	1.67
	60	94	.8	3.8	5.7	6.9	7.9	8.9	10.2	11.9	13.9	19.3	28.3	10.2	8.4	2.00
	61	75	.7	2.2	2.9	4.7	6.3	8.5	9.8	11.3	12.9	17.0	22.7	8.7	6.6	2.31
	57 61	360	.7	2.8	4.7	6.2	7.5	8.7	10.1	11.9	14.3	18.7	56.2	10.0	8.0	2.06
NEW MEXICO	57	22	6.1	7.4	8.8	9.9	14.4	16.1	18.0	20.0	27.9	32.9	41.0	18.1	15.6	1.74
	58	24	4.6	8.1	10.8	11.7	13.3	14.4	15.7	18.5	21.8	30.4	35.5	16.2	14.6	1.61
	59	24	3.9	4.5	6.7	7.4	8.8	11.3	12.2	13.5	14.4	26.5	52.0	13.4	10.9	1.86
	60	26	5.6	6.3	7.4	9.0	9.6	10.3	12.2	15.7	18.5	23.6	32.3	13.4	11.8	1.65
	61	22	2.0	3.0	3.5	5.0	5.6	6.3	8.8	10.3	15.7	25.8	78.4	12.0	7.8	2.34
	57 61	118	2.0	5.3	6.9	8.5	10.0	11.7	14.0	16.4	20.0	27.4	78.4	14.6	11.8	1.91
NEW YORK	57	123	1.9	3.3	3.9	4.7	5.2	6.2	7.2	8.7	11.1	13.9	28.3	7.7	6.5	1.75
	58	51	4.0	6.1	7.2	8.1	9.0	10.3	11.7	13.0	14.4	20.0	33.1	12.0	10.8	1.59
	59	312	.8	2.9	3.5	4.3	5.1	6.1	7.7	9.1	11.5	15.3	89.6	8.6	6.5	2.02
	60	318	.8	2.2	2.8	3.5	4.3	5.2	6.5	8.1	10.1	13.9	81.9	7.3	5.5	2.08
	61	297	.9	2.2	3.2	4.1	4.9	5.8	6.7	8.3	10.2	14.2	36.5	7.4	5.8	2.01
	57 61	1101	.8	2.5	3.4	4.2	5.0	6.0	7.3	8.7	11.0	14.6	89.6	7.9	6.1	2.02
NORTH CAROLINA	57	51	1.2	3.2	4.5	4.9	5.3	6.9	10.6	12.2	15.3	21.8	53.1	10.8	7.9	2.19
	58	72	2.0	4.5	5.1	6.5	7.6	8.8	10.6	13.1	16.0	25.8	65.2	12.2	9.5	1.96
	59	51	2.5	3.9	4.6	5.3	6.1	8.3	10.3	13.1	15.3	23.6	66.1	11.7	8.5	2.04
	60	77	2.7	4.9	6.1	7.6	9.2	10.3	12.0	15.3	19.6	23.6	59.8	13.3	10.8	1.87
	61	76	.3	3.0	3.7	4.9	5.6	6.4	7.4	9.8	13.3	23.6	95.3	10.7	7.3	2.33
	57 61	327	.3	3.8	4.8	5.6	6.8	8.4	10.3	12.7	16.2	23.6	95.3	11.8	8.9	2.10
NORTH DAKOTA	57	24	1.7	1.6	2.4	2.6	3.4	3.6	3.8	4.3	5.3	6.3	9.0	3.9	3.5	1.58
	58	26	1.6	2.0	2.5	3.0	3.8	4.3	5.0	5.8	7.4	8.3	10.9	4.9	4.3	1.71
	59	25	1.6	1.7	2.5	2.8	3.0	3.1	3.4	4.0	4.3	6.3	6.9	3.6	3.3	1.49
	60	26	.8	2.0	2.5	3.0	3.3	3.6	3.9	4.2	5.3	6.3	8.4	3.9	3.5	1.64
	61	25	1.0	1.8	2.0	2.5	2.7	3.4	3.7	4.8	5.3	7.4	14.3	4.1	3.4	1.79
	57 61	126	.8	1.7	2.4	2.8	3.1	3.5	4.0	4.4	5.6	6.9	14.3	4.1	3.6	1.6[illegible]
OHIO	57	181	2.1	4.1	5.1	6.2	7.6	9.2	10.8	12.9	16.2	20.6	53.3	11.3	9.2	1.87
	58	172	3.1	5.9	7.6	8.7	9.6	10.5	11.9	14.5	16.5	20.5	51.3	12.7	11.1	1.65
	59	202	1.9	5.1	6.1	7.3	8.3	9.6	11.0	12.7	15.6	24.1	49.8	12.0	10.0	1.80
	60	203	1.7	3.7	5.4	6.4	7.1	8.0	8.9	10.2	12.5	16.1	61.2	9.6	8.1	1.77
	61	203	1.5	4.4	5.5	6.5	7.1	8.0	8.9	10.2	12.4	16.4	57.4	9.7	8.3	1.70
	57 61	961	1.5	4.5	5.8	6.9	7.9	9.0	10.2	11.9	14.7	19.1	61.2	11.0	9.2	1.78
OKLAHOMA	57	20	.8	.9	1.7	2.0	2.4	2.5	2.6	2.9	3.2	4.3	6.7	2.7	2.4	1.67
	58	25	3.3	4.3	4.9	5.8	6.3	7.4	7.7	8.2	8.5	9.6	11.2	6.8	6.5	1.35
	59	21	.8	1.5	1.6	1.7	2.4	3.4	3.8	4.1	4.4	5.3	13.6	3.5	2.9	1.81
	60	23	2.8	4.2	5.0	5.5	5.9	6.7	7.4	8.0	8.5	12.2	15.3	7.2	6.7	1.50
	61	48	.9	1.9	2.6	3.4	4.3	5.1	6.0	7.1	8.2	10.3	14.5	5.6	4.7	1.92
	57 61	137	.8	1.7	2.5	3.3	4.1	4.9	5.7	6.8	8.0	9.3	15.3	5.3	4.4	1.91

TABLE 9.9 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OREGON	57	26	.8	3.0	3.4	3.8	4.5	6.7	7.2	8.8	11.3	18.5	43.	8.9	6.2	2.38
	58	25	2.2	3.5	4.5	6.3	7.0	10.9	12.7	14.4	18.5	25.8	58.8	12.8	9.5	2.20
	59	26	1.6	3.2	4.5	5.3	6.0	8.1	10.3	11.6	14.4	20.0	36.1	10.7	8.2	2.11
	60	24	1.5	1.6	2.3	3.2	4.9	5.8	6.7	7.9	8.8	13.3	29.0	6.8	5.7	2.13
	61	70	.8	3.2	4.7	6.3	8.5	10.1	12.8	16.1	19.5	29.6	86.3	14.7	10.1	2.42
	57 61	171	.8	2.9	3.9	5.2	6.6	8.2	10.1	12.6	17.2	25.0	86.3	11.9	8.2	2.36
PENNSYLVANIA	57	73	2.1	4.2	5.6	6.9	8.0	10.6	12.8	14.8	17.6	23.6	36.1	12.0	9.9	1.92
	58	125	1.6	4.5	5.9	7.0	8.0	9.4	10.8	12.4	14.2	20.5	49.0	11.0	9.2	1.81
	59	148	2.2	5.3	6.3	7.6	8.9	10.3	11.8	15.4	20.0	30.4	109.6	14.7	11.3	1.98
	60	124	1.9	4.5	5.8	6.6	7.2	8.0	8.8	10.3	12.8	20.0	36.1	10.1	8.6	1.74
	61	198	1.5	4.3	5.8	7.1	8.1	9.0	10.1	12.2	15.1	21.2	54.3	11.3	9.4	1.83
	57 61	668	1.5	4.6	5.9	7.0	8.0	9.1	10.6	12.6	16.0	22.4	109.6	11.8	9.7	1.86
PUERTO RICO	57	21	1.6	1.6	2.3	3.2	4.2	4.8	5.1	5.6	6.3	7.0	11.8	4.8	4.2	1.72
	59	24	3.6	3.8	4.9	5.5	6.1	6.9	7.9	9.3	10.3	12.2	37.7	8.7	7.4	1.68
	60	23	1.6	2.7	3.9	4.2	4.5	5.8	7.4	8.0	8.5	12.2	16.3	6.8	5.8	1.77
	61	24	2.9	3.2	4.5	5.4	5.9	6.2	6.6	7.4	8.1	10.3	12.4	6.4	6.0	1.45
	57 61	92	1.6	3.0	3.9	4.6	5.3	5.8	6.4	7.4	8.6	11.1	37.7	6.7	5.8	1.70
RHODE ISLAND	57	23	3.3	4.7	5.3	6.3	6.9	7.8	8.5	9.6	11.3	17.0	70.0	11.2	8.6	1.86
	58	26	6.5	7.1	8.1	9.8	10.8	12.2	13.9	15.7	20.0	23.6	32.5	14.1	12.7	1.58
	59	26	3.0	4.7	5.0	5.6	6.3	7.0	7.9	8.8	14.4	17.0	42.6	10.3	8.3	1.95
	60	26	4.1	5.6	6.3	7.1	7.9	9.3	11.3	12.9	17.0	20.0	27.9	11.4	10.0	1.65
	61	25	2.3	3.2	4.2	4.9	5.3	6.1	6.7	8.1	9.3	12.7	14.4	6.7	6.0	1.63
	57 61	126	2.3	4.7	5.4	6.4	7.1	8.1	9.6	11.4	14.2	19.4	70.0	10.7	8.9	1.80
SOUTH CAROLINA	57	50	2.4	4.0	4.7	5.3	6.9	8.5	10.8	15.3	18.8	25.0	35.0	11.6	9.1	2.00
	58	24	2.0	4.5	9.2	9.9	11.3	12.2	14.4	17.0	21.8	35.9	52.9	15.9	12.9	1.98
	59	23	1.8	2.0	3.2	3.8	4.3	6.3	7.4	8.8	10.3	14.4	23.5	7.7	6.0	2.05
	60	48	4.1	5.3	7.2	8.2	9.4	10.6	11.9	15.3	17.0	34.9	64.6	15.2	11.9	1.94
	61	50	.8	1.7	3.0	3.8	5.1	6.5	7.4	8.4	11.3	16.1	35.7	8.3	6.0	2.32
	57 61	195	.8	3.3	4.4	5.9	7.3	8.7	10.5	12.1	16.5	24.5	64.6	11.7	8.7	2.19
SOUTH DAKOTA	57	26	.5	2.2	2.4	2.7	3.0	3.8	4.3	4.7	5.3	6.0	7.5	3.9	3.4	1.74
	58	25	2.9	3.0	3.2	4.5	4.8	5.3	5.7	6.3	7.4	8.5	12.8	5.6	5.3	1.45
	59	26	1.8	3.4	3.5	3.8	4.1	4.5	5.1	6.3	8.3	10.3	16.9	5.9	5.2	1.65
	60	22	1.7	2.3	2.6	3.2	3.8	4.3	4.8	5.3	6.9	10.3	27.2	5.9	4.7	1.90
	61	26	1.5	2.0	2.4	2.7	3.6	4.0	4.3	4.5	5.1	5.8	10.8	4.1	3.7	1.56
	57 61	125	.5	2.4	2.9	3.5	3.9	4.3	4.8	5.3	6.2	8.3	27.2	5.1	4.4	1.70
TENNESSEE	57	52	3.5	5.3	5.9	6.9	7.7	8.5	11.3	13.1	17.0	20.0	56.0	11.9	9.9	1.78
	58	76	4.8	6.9	7.8	8.5	9.6	11.7	16.0	19.5	25.3	38.9	82.2	18.2	14.0	1.99
	59	77	3.6	6.1	7.4	8.6	10.8	12.9	15.2	17.6	23.6	34.9	72.7	16.9	13.4	1.94
	60	76	4.4	5.7	7.2	8.4	9.3	10.5	12.0	14.4	17.0	26.5	59.3	14.1	11.6	1.80
	61	100	2.9	5.0	6.1	7.1	8.8	10.0	12.2	14.8	20.4	25.8	67.6	13.4	10.8	1.90
	57 61	381	2.9	5.5	6.8	7.9	9.1	10.8	13.1	15.9	20.6	30.2	82.2	15.0	11.9	1.91
TEXAS	57	129	1.4	1.9	2.5	3.1	3.8	4.4	5.2	6.7	8.4	11.8	28.4	5.9	4.7	1.95
	58	147	2.3	3.7	4.3	5.0	5.8	6.6	7.5	8.4	10.7	12.9	28.4	7.9	6.9	1.67
	59	114		1.7	2.3	2.9	3.5	4.4	5.2	6.1	7.8	10.7	20.7	5.5	4.3	2.19
	60	174	1.1	2.5	3.2	3.9	4.9	5.7	6.5	7.5	8.7	12.0	29.7	6.7	5.6	1.81
	61	272		2.1	2.6	3.1	3.8	4.4	5.1	6.0	7.4	10.3	49.4	5.7	4.5	2.02
	57 61	836		2.2	2.9	3.6	4.3	5.0	5.9	7.0	8.5	11.6	49.4	6.3	5.1	1.97
UTAH	57	22	3.9	4.3	4.9	6.0	6.6	7.1	7.7	8.2	10.3	17.0	26.2	8.5	7.5	1.61
	58	24	3.9	4.5	5.3	5.8	6.9	7.8	8.5	10.3	12.2	20.0	24.3	9.6	8.4	1.68
	59	26	4.0	5.3	5.8	7.4	7.9	8.6	10.9	12.2	18.5	23.6	54.5	13.4	10.4	1.96
	60	25	5.0	5.6	6.1	7.0	8.8	10.3	11.3	13.3	15.7	23.6	32.0	12.1	10.4	1.72
	61	22	3.7	4.5	6.3	7.7	8.2	8.8	11.3	14.4	23.6	27.9	46.8	13.9	10.9	2.02
	57 61	119	3.7	4.8	5.7	6.5	7.5	8.3	9.6	11.6	15.9	23.6	54.5	11.5	9.4	1.82

TABLE 29 — BENZENE SOLUBLE ORGANIC MATTER: URBAN, YEARLY AND CUMULATIVE STATE SUMMARIES — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
VERMONT	57	26	.8	1.4	1.6	2.1	2.3	2.5	2.6	2.9	3.3	3.6	4.5	2.5	2.3	1.53
	58	26	1.6	2.3	2.4	2.6	2.8	3.2	3.8	4.2	5.3	6.3	10.2	3.9	3.5	1.56
	59	26	.8	1.4	1.6	1.7	2.6	3.4	3.8	4.3	5.0	6.3	9.6	3.6	3.0	1.89
	60	25	.9	1.9	2.4	2.6	3.0	3.4	3.6	4.0	4.3	5.8	8.2	3.5	3.1	1.66
	61	24	.7	.9	1.6	1.7	2.4	2.6	2.9	3.8	5.3	6.1	6.6	3.1	2.7	1.83
	57 61	127	.7	1.5	1.7	2.4	2.6	2.9	3.3	3.7	4.4	5.7	10.2	3.3	2.9	1.72
VIRGINIA	57	51	2.5	3.6	4.5	5.4	6.0	7.4	8.8	10.9	12.6	14.9	19.8	8.4	7.4	1.68
	58	50	1.0	2.7	4.0	4.4	5.3	6.0	7.4	9.8	11.8	21.8	36.5	9.1	6.9	2.11
	59	75	3.0	4.3	5.7	6.6	7.3	8.0	8.6	12.6	15.1	29.2	46.8	11.7	9.3	1.89
	60	77	2.3	2.6	3.8	5.3	5.8	6.3	7.2	8.6	12.2	14.4	43.0	8.4	6.7	1.90
	61	99	.8	2.2	3.1	3.9	4.5	5.6	7.0	8.2	10.5	14.4	30.5	7.3	5.7	2.04
	57 61	352	.8	2.8	3.9	4.8	5.7	6.6	7.8	9.3	12.0	16.0	46.8	8.8	6.9	1.98
WASHINGTON	57	25	1.6	3.2	4.5	6.6	7.1	8.8	10.3	13.7	15.3	20.0	23.2	9.9	8.2	1.97
	58	24	2.6	4.0	5.3	7.4	8.8	11.3	14.4	23.6	30.4	38.9	48.1	17.4	12.4	2.38
	59	26	1.9	2.3	2.6	3.0	3.8	5.0	6.3	7.4	8.8	12.7	17.4	6.2	5.1	1.91
	60	75	1.8	2.9	4.2	5.0	6.0	7.0	9.2	12.2	17.0	26.5	62.6	11.5	8.1	2.25
	61	50	1.7	3.0	4.0	4.5	5.1	5.9	7.6	8.6	11.7	16.1	64.4	9.1	6.8	2.03
	57 61	200	1.6	2.7	4.0	4.8	5.8	7.0	8.5	11.3	15.3	23.1	64.4	10.7	7.7	2.20
WEST VIRGINIA	57	48	2.4	3.8	4.9	6.3	8.8	9.7	11.6	15.7	19.3	22.9	43.7	12.7	9.9	2.10
	58	23	3.8	4.2	5.6	6.1	6.7	8.8	9.4	10.0	12.2	23.6	30.8	10.4	8.6	1.81
	59	47	1.5	4.2	5.7	7.6	8.8	10.8	11.9	14.0	18.0	23.6	48.1	13.3	10.3	2.09
	60	49	3.4	4.4	5.4	6.2	7.0	8.5	10.3	12.9	17.0	22.4	41.3	11.3	9.4	1.84
	61	26	3.3	5.0	5.6	6.3	7.4	8.5	9.8	10.9	17.0	20.0	37.2	11.6	9.5	1.85
	57 61	193	1.5	4.2	5.5	6.3	7.8	9.3	10.7	13.1	17.7	23.3	48.1	12.1	9.6	1.96
WISCONSIN	57	48	.9	3.2	4.2	4.9	5.8	6.6	7.3	8.3	9.4	12.2	21.2	7.2	6.2	1.78
	58	26	3.2	4.5	5.0	5.6	6.0	6.7	7.9	8.8	11.6	13.3	21.1	8.2	7.4	1.59
	59	51	3.2	3.7	4.4	5.1	5.7	6.9	8.0	8.8	9.9	12.9	17.0	7.5	6.8	1.54
	60	47	3.0	5.0	6.1	7.0	8.1	9.4	10.6	12.2	14.0	17.0	23.0	10.3	9.2	1.61
	61	49	2.3	3.5	4.2	5.3	6.1	6.7	7.2	8.8	9.9	12.9	20.1	7.6	6.8	1.63
	57 61	221	.9	3.8	4.6	5.5	6.2	7.1	8.1	9.3	11.1	13.9	23.0	8.1	7.2	1.66
WYOMING	57	26	.8	1.7	2.4	2.8	3.1	3.5	4.0	4.5	6.0	8.8	9.6	4.2	3.5	1.87
	58	24	1.0	1.7	3.3	3.6	3.9	4.2	4.4	5.0	5.6	8.8	12.6	4.8	4.3	1.68
	59	26	1.7	2.0	2.4	2.6	3.3	3.4	3.6	3.7	4.3	5.3	11.4	3.8	3.4	1.53
	60	23	.8	1.5	1.6	1.9	2.4	3.3	3.6	3.8	4.3	5.8	6.7	3.2	2.8	1.68
	61	25	.7	.8	1.4	1.6	1.7	2.5	2.9	3.4	3.8	4.3	7.1	2.6	2.2	1.83
	57 61	124	.7	1.5	1.9	2.5	3.1	3.4	3.7	4.1	4.6	6.2	12.6	3.7	3.2	1.79

TABLE 2.10—BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BIRMINGHAM	57	25	.9	4.2	5.3	6.9	7.4	9.0	9.4	10.1	11.3	17.0	21.4	9.1	7.7	1.92
	58	20	3.0	4.5	6.3	8.1	10.3	11.6	14.4	20.0	32.9	54.1	119.0	23.5	14.2	2.68
	59	26	2.7	2.7	3.8	6.9	7.4	9.6	11.3	12.2	17.0	23.6	85.1	15.7	10.1	2.42
	60	25	3.6	3.8	5.3	7.0	7.9	9.6	10.9	12.9	14.4	38.9	57.0	14.2	10.2	2.17
	61	26	1.8	2.7	3.8	5.6	6.3	7.1	10.3	15.3	20.0	23.6	32.3	11.1	8.2	2.28
	57 61	122	.9	3.4	5.2	6.6	7.5	9.1	10.6	12.6	17.8	31.2	119.0	14.3	9.7	2.31
MOBILE	58	25	.5	5.3	7.4	9.3	10.3	15.7	25.8	38.9	51.4	63.9	123.9	29.2	16.7	3.34
	60	25	2.6	4.2	5.6	7.4	8.8	17.0	21.8	30.4	35.9	63.9	92.5	23.6	14.7	2.79
	58 60	50	.5	4.3	6.1	8.1	9.9	15.3	22.7	32.9	48.0	60.6	123.9	26.4	15.6	3.03
MONTGOMERY	59	25	5.8	6.1	6.9	7.8	8.2	8.8	11.6	14.4	15.7	20.0	33.2	12.0	10.6	1.62
	61	26	3.4	5.3	5.8	7.4	8.0	8.8	9.7	10.3	11.7	13.3	42.6	10.1	8.8	1.62
	59 61	51	3.4	5.6	6.2	7.5	8.1	8.8	10.3	11.7	13.9	16.5	42.6	11.0	9.6	1.63
ALASKA																
ANCHORAGE	57	26	4.0	4.8	5.3	6.7	7.4	8.2	10.3	12.2	13.9	15.3	31.2	9.9	8.7	1.63
	58	26	2.4	3.2	3.4	3.8	4.3	4.9	6.3	7.4	10.3	12.9	15.9	6.6	5.7	1.75
	59	25	1.7	2.3	2.7	3.6	3.8	4.9	5.3	6.3	7.9	10.3	14.3	5.5	4.7	1.74
	60	26	1.7	2.4	2.5	2.6	3.5	4.0	4.4	5.3	7.9	8.8	14.6	5.0	4.3	1.78
	61	25	.8	1.7	2.4	2.9	3.2	3.7	3.9	4.4	5.3	8.8	19.3	4.5	3.6	1.97
	57 61	128	.8	2.4	3.1	3.6	4.1	4.7	5.7	7.5	8.8	12.9	31.2	6.3	5.2	1.90
ARIZONA																
PHOENIX	57	26	3.7	5.3	6.9	7.9	8.3	10.3	15.7	20.0	29.2	31.7	58.7	16.4	12.5	2.10
	58	23	5.7	6.0	7.8	8.5	9.6	11.6	17.0	21.8	25.0	30.4	53.3	16.2	13.4	1.86
	59	25	3.9	6.3	7.7	8.5	10.8	12.2	20.0	30.4	34.9	41.2	44.6	19.4	15.1	2.11
	60	25	3.8	7.4	9.2	10.3	13.7	17.0	19.0	27.9	38.9	44.2	55.7	21.0	16.8	2.00
	61	26	3.5	5.0	5.8	7.4	11.3	13.7	17.0	20.0	25.3	27.0	28.6	14.7	12.2	1.93
	57 61	125	3.5	5.7	7.4	8.5	10.5	13.3	17.4	23.6	28.4	37.4	58.7	17.5	13.9	2.00
TUCSON	60	25	.8	2.6	3.3	3.7	4.2	5.3	6.0	6.9	7.4	9.8	11.0	5.5	4.8	1.77
	61	23	.9	1.7	2.5	3.3	3.5	3.8	4.5	6.3	7.4	17.0	24.6	6.2	4.4	2.25
	60 61	48	.8	2.0	2.7	3.4	3.7	4.3	5.6	6.7	7.4	10.3	24.6	5.8	4.6	2.00
ARKANSAS																
LITTLE ROCK	57	26	2.4	2.8	3.0	3.2	4.1	4.5	4.9	5.2	8.3	10.3	17.4	5.9	5.0	1.75
	58	26	2.0	4.2	4.9	6.3	6.9	7.9	9.1	9.7	14.4	20.0	31.4	9.8	8.2	1.85
	59	26	2.3	3.0	4.5	5.1	5.5	6.1	6.9	7.4	8.5	10.3	32.5	7.5	6.3	1.72
	60	26	.8	2.3	3.2	4.3	4.7	5.1	6.0	6.9	10.8	11.7	25.6	6.7	5.4	2.00
	61	25	1.6	2.7	3.0	3.8	4.9	6.0	6.6	7.4	9.6	14.4	21.7	6.9	5.7	1.90
	57 61	129	.8	2.8	3.5	4.4	5.0	5.8	6.7	7.9	9.7	13.5	32.5	7.4	6.0	1.87
CALIFORNIA																
BERKELEY	59	25	1.6	3.5	4.2	5.3	5.8	6.7	7.4	9.8	12.2	27.9	29.4	9.3	7.3	2.00
	61	26	1.7	1.6	2.7	3.6	4.0	4.9	5.8	6.3	8.1	20.0	35.8	7.6	5.2	2.27
	59 61	51	1.6	1.7	3.4	4.1	4.9	5.8	6.5	7.9	10.3	21.8	35.8	8.4	6.1	2.16
BURBANK	57	25	4.2	5.3	6.3	9.2	9.9	14.4	23.6	26.8	29.6	38.9	60.7	19.7	14.7	2.22
	60	26	8.9	12.2	14.8	16.1	17.0	20.9	23.6	31.2	38.9	50.0	83.5	26.8	22.8	1.76
	57 60	51	4.2	6.3	9.6	12.2	15.7	20.0	23.6	28.7	32.9	50.0	83.5	23.3	18.4	2.05
FRESNO	58	24	1.8	2.0	4.5	5.3	6.6	7.1	8.1	10.3	13.3	38.9	58.4	12.3	8.0	2.49
	60	25	3.8	4.3	4.8	5.6	6.3	7.9	8.8	12.2	15.7	21.8	31.1	10.1	8.5	1.79
	58 60	49	1.8	3.8	4.7	5.5	6.5	7.4	8.5	10.3	14.4	23.6	58.4	11.2	8.2	2.12
GLENDALE	59	24	6.6	8.8	12.9	14.4	17.0	21.4	22.9	27.9	30.4	35.9	99.2	24.0	20.2	1.77
	61	24	3.1	4.2	5.8	6.7	8.8	10.9	12.2	17.0	20.0	32.9	41.5	13.8	10.5	2.07
	59 61	48	3.1	5.8	7.4	10.3	12.6	15.1	20.0	23.0	27.9	32.9	99.2	18.9	14.7	2.05
LONG BEACH	58	25	3.7	6.3	7.9	9.3	10.3	12.2	14.4	27.9	31.2	50.0	80.4	21.3	15.4	2.25
	61	26	2.9	4.2	5.3	5.9	6.3	10.3	15.7	17.0	21.8	25.8	41.0	13.3	10.3	2.12
	58 61	51	2.9	4.5	5.8	7.4	9.4	11.7	15.7	21.2	26.8	32.9	80.4	17.2	12.5	2.23
LOS ANGELES	57	24	3.6	4.5	11.6	14.4	18.5	21.2	23.6	35.9	45.9	52.1	56.1	26.1	20.5	2.17
	58	21	15.6	16.1	18.5	21.2	23.6	26.8	32.9	35.9	38.9	45.9	61.9	30.4	27.9	1.51
	59	23	5.0	7.4	10.3	11.6	12.8	14.4	17.0	23.6	26.5	32.9	42.0	18.0	15.6	1.74
	60	25	3.0	7.4	9.6	12.9	14.4	20.0	22.4	27.9	29.9	32.9	69.4	21.2	17.1	2.00
	61	26	6.4	7.4	8.8	13.1	14.0	17.0	22.4	27.9	31.7	38.9	58.0	21.7	17.9	1.90
	57 61	119	3.0	8.3	11.4	13.7	16.5	20.6	23.6	27.9	32.9	44.7	69.4	23.3	19.2	1.92

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OAKLAND	58	25	4.5	5.3	6.3	9.2	9.9	11.3	12.2	17.0	21.2	27.9	60.3	15.3	12.1	1.92
	60	25	2.4	5.8	6.3	7.1	8.1	9.8	10.9	12.9	14.4	20.0	50.5	11.8	9.9	1.80
	61	24	2.8	4.2	5.6	6.3	7.4	8.1	8.8	9.7	10.3	17.0	36.0	9.7	8.3	1.73
	58 61	74	2.4	5.0	6.1	7.0	8.4	9.4	10.3	12.2	15.1	22.7	60.3	12.3	10.0	1.84
PASADENA	57	23	6.5	7.4	10.3	10.9	11.6	14.4	16.1	21.8	24.7	27.9	36.8	16.8	14.9	1.64
	60	26	4.6	7.4	8.8	14.4	15.7	17.6	19.4	20.9	23.6	27.9	38.7	17.7	15.6	1.71
	57 60	49	4.6	7.4	9.6	11.3	14.4	16.3	18.2	21.2	24.3	27.9	38.7	17.2	15.3	1.67
RICHMOND	58	22	2.5	2.5	2.7	3.8	4.9	5.3	6.0	6.9	10.3	12.2	32.1	7.6	5.8	1.98
	60	26	.8	.9	1.9	2.6	3.4	4.2	6.3	6.7	7.2	7.9	9.6	4.6	3.6	2.17
	58 60	48	.8	1.9	2.5	3.2	3.8	5.0	6.1	6.9	7.4	9.6	32.1	6.0	4.5	2.15
SACRAMENTO	58	25	2.2	3.0	3.5	4.9	6.3	8.8	10.3	23.6	29.6	45.9	71.3	16.3	9.8	2.77
	60	26	2.5	3.0	3.3	3.7	4.5	6.1	7.0	8.1	12.2	17.0	36.0	8.4	6.4	2.02
	58 60	51	2.2	3.0	3.4	3.8	5.5	6.9	8.5	10.9	20.0	31.2	71.3	12.3	7.9	2.43
SAN BERNARDINO	57	20	3.2	5.3	6.3	9.6	11.3	14.9	16.0	17.0	23.6	42.4	79.0	19.8	14.3	2.25
	59	24	3.4	4.2	6.3	8.1	12.2	13.3	14.4	20.0	23.6	26.8	34.0	14.5	12.1	1.92
	61	25	1.7	4.2	4.9	7.4	9.6	11.6	14.4	16.0	17.0	23.6	28.0	12.3	10.0	2.05
	57 61	69	1.7	4.3	5.8	8.5	10.6	13.1	15.1	16.8	20.9	27.0	79.0	15.3	11.9	2.07
SAN DIEGO	57	26	2.3	3.0	3.2	5.0	5.8	6.9	8.8	12.2	17.0	23.6	46.4	10.7	7.9	2.16
	58	23	3.9	4.1	4.5	5.3	6.0	8.1	8.8	13.3	17.0	27.9	40.1	12.3	9.2	2.10
	59	26	2.6	3.2	3.6	4.8	5.3	9.4	10.3	14.4	16.4	20.0	28.2	10.8	8.4	2.10
	60	25	2.5	3.8	4.2	4.8	5.3	6.9	7.9	12.8	13.9	21.8	29.0	9.5	7.5	2.01
	61	24	1.5	2.3	3.2	3.5	4.0	4.5	6.3	12.2	17.0	25.8	37.7	10.1	6.8	2.46
	57 61	124	1.5	3.0	3.9	4.5	5.4	7.1	9.2	13.0	16.3	24.2	46.4	10.7	7.9	2.15
SAN FRANCISCO	57	26	2.3	2.8	3.1	3.8	5.3	6.3	7.4	8.8	12.2	15.7	33.5	8.4	6.6	2.01
	58	25	2.2	3.2	4.0	4.5	5.3	6.9	8.1	11.6	14.4	27.9	49.3	10.7	7.7	2.17
	59	26	2.1	2.3	2.7	3.2	3.6	5.3	7.4	9.6	12.2	20.0	57.2	10.2	6.3	2.54
	60	26	2.5	2.7	3.6	4.1	4.4	5.3	7.0	8.1	12.2	15.3	28.4	7.8	6.2	1.92
	61	25	1.3	2.5	3.4	3.8	4.1	4.5	5.3	13.3	17.0	21.8	28.4	8.8	6.2	2.36
	57 61	128	1.3	2.6	3.3	3.8	4.5	5.6	7.2	9.9	13.5	19.3	57.2	9.2	6.6	2.19
SAN JOSE	57	25	1.7	2.6	3.0	3.8	5.5	6.1	6.5	7.2	8.8	13.3	21.0	6.8	5.7	1.86
	59	26	1.9	3.8	4.5	5.0	5.3	6.7	9.2	9.9	12.2	25.8	46.4	11.0	8.0	2.14
	61	26	2.5	3.2	4.0	4.7	5.1	6.7	7.4	9.8	17.0	23.6	118.1	15.4	8.4	2.63
	57 61	77	1.7	2.9	3.8	4.7	5.4	6.5	7.1	9.4	11.8	21.8	118.1	11.1	7.3	2.24
STOCKTON	58	26	4.1	5.3	5.8	6.7	7.4	8.1	8.5	10.9	14.4	20.0	42.7	11.9	9.6	1.85
COLORADO																
DENVER	57	24	2.6	2.7	5.1	6.9	8.8	9.4	10.0	14.9	15.7	20.0	26.4	10.8	9.1	1.85
	58	25	5.6	5.8	6.1	7.4	7.8	8.4	8.8	12.2	15.7	25.0	26.2	11.1	9.7	1.65
	59	24	4.5	4.9	6.6	7.1	8.3	10.3	13.3	17.0	25.8	38.9	58.4	16.3	12.3	2.12
	60	25	3.0	7.6	8.1	8.8	9.6	10.8	11.7	14.4	16.1	25.8	29.9	12.7	11.2	1.66
	61	25	5.0	5.4	5.7	6.2	6.6	7.4	8.3	11.6	13.3	34.9	36.4	11.7	9.4	1.85
	57 61	123	2.6	5.3	6.2	7.2	8.1	9.0	10.7	13.5	16.2	25.9	58.4	12.5	10.3	1.83
CONNECTICUT																
BRIDGEPORT	58	21	6.5	6.7	7.2	7.9	8.8	11.3	12.2	13.3	14.4	20.0	38.1	13.0	11.5	1.63
	60	24	1.6	3.0	5.3	5.8	6.9	7.7	8.2	9.3	10.3	17.0	23.2	8.7	7.4	1.82
	58 60	45	1.6	5.3	6.3	7.1	7.8	8.6	9.9	11.8	13.5	18.5	38.1	10.7	9.1	1.79
HARTFORD	57	26	2.6	4.5	5.3	5.8	6.1	8.8	10.6	11.3	12.2	20.0	44.0	10.9	8.8	1.89
	58	25	3.0	4.3	4.9	5.6	6.0	6.6	7.1	9.6	10.9	14.4	18.2	7.9	7.1	1.61
	59	26	2.6	3.5	4.5	5.3	6.9	7.8	8.8	9.8	11.6	15.3	21.1	8.5	7.4	1.73
	60	26	3.8	5.3	6.0	6.6	6.9	7.4	10.3	11.6	14.4	23.6	44.0	11.8	9.5	1.87
	61	23	2.8	3.4	4.2	4.8	5.3	5.9	6.3	7.4	8.8	12.2	15.6	6.7	6.1	1.57
	57 61	126	2.6	3.9	4.9	5.7	6.3	7.0	8.5	10.2	11.7	16.0	44.0	9.2	7.7	1.76
NEW BRITAIN	59	25	3.2	5.3	6.3	8.1	8.8	9.4	9.9	12.2	13.3	20.0	85.6	13.4	10.1	1.91
	61	22	2.6	3.2	4.9	6.7	7.4	8.0	8.5	9.6	14.4	20.0	25.9	9.7	8.3	1.79
	59 61	47	2.6	4.7	5.6	7.1	8.0	8.8	9.5	10.3	13.5	18.5	85.6	11.7	9.2	1.86

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEW HAVEN	57	23	2.7	3.8	4.9	5.5	5.9	7.9	8.8	11.3	14.4	17.0	19.9	8.9	7.7	1.73
	58	25	4.6	5.1	5.5	6.1	6.7	8.8	9.6	10.7	11.4	17.0	24.3	9.2	8.3	1.57
	59	23	3.8	4.2	5.5	5.8	6.1	8.1	9.3	10.3	11.6	18.5	33.5	9.6	8.2	1.74
	60	25	3.0	4.8	5.3	6.3	7.4	8.8	9.8	11.3	12.2	15.7	27.6	9.3	8.3	1.63
	61	26	3.4	4.3	4.7	5.3	6.3	7.4	8.1	8.6	10.3	12.2	17.8	8.0	7.3	1.53
	57 61	122	2.7	4.4	5.1	5.8	6.4	7.8	8.9	10.3	11.8	16.0	33.5	9.0	7.9	1.63
STAMFORD	57	26	1.7	4.5	5.0	5.7	6.1	6.9	7.9	8.8	10.3	13.3	21.7	8.0	7.0	1.68
	60	26	2.4	2.7	3.8	4.5	5.8	7.4	10.8	11.7	14.4	16.1	21.5	9.1	7.4	1.98
	57 60	52	1.7	3.2	4.3	5.4	6.2	7.0	8.5	10.3	12.8	15.7	21.7	8.6	7.2	1.83
WATERBURY	58	23	3.3	3.8	4.5	5.3	5.8	7.4	8.8	9.8	11.3	30.4	45.6	10.5	8.0	1.99
	61	23	2.4	3.4	4.5	5.3	5.6	6.0	6.3	7.8	8.5	12.2	14.9	7.1	6.4	1.59
	58 61	46	2.4	3.7	4.3	5.3	5.7	6.1	7.6	8.6	10.8	13.3	45.6	8.8	7.1	1.80
DELAWARE																
WILMINGTON	57	25	3.8	5.3	6.7	7.8	8.5	9.6	10.3	12.2	14.4	23.6	41.0	12.2	10.1	1.80
	58	23	3.0	5.3	7.1	8.1	10.3	13.3	15.3	17.0	20.0	27.9	38.9	14.3	12.1	1.84
	60	25	5.2	9.0	9.6	10.3	14.4	17.4	18.1	19.3	20.0	32.9	48.5	17.5	15.5	1.63
	61	23	3.1	4.9	7.6	8.1	8.6	10.3	11.3	12.2	14.4	20.0	55.3	12.8	10.5	1.80
	57 61	96	3.0	6.3	7.5	8.6	9.6	11.1	13.6	16.6	19.3	23.6	55.3	14.2	11.9	1.80
DIST. OF COL.																
WASHINGTON	58	24	6.2	6.7	7.9	8.8	10.8	11.7	12.8	14.4	17.0	22.4	27.9	12.9	11.8	1.52
	59	22	3.5	4.5	5.3	7.4	8.1	8.8	9.8	12.2	17.0	25.8	45.4	12.2	9.7	1.93
	60	22	5.6	6.3	8.1	10.3	11.3	12.2	14.4	21.2	27.9	32.9	48.6	17.3	14.3	1.84
	61	24	3.1	3.8	6.3	7.0	8.8	10.3	12.9	18.0	20.0	29.6	31.7	13.5	10.9	2.01
	58 61	92	3.1	5.5	6.9	8.2	9.5	11.1	12.8	15.1	21.4	27.0	48.6	13.9	11.6	1.84
FLORIDA																
JACKSONVILLE	58	26	2.8	4.9	6.3	7.4	8.8	9.7	11.3	13.3	18.0	20.0	33.2	12.3	10.2	1.85
	60	26	2.2	4.9	5.6	6.6	7.1	8.8	10.3	13.3	17.0	20.0	29.9	10.9	9.2	1.84
	58 60	52	2.2	4.7	5.8	6.9	8.1	9.4	10.3	13.3	17.6	21.8	33.2	11.6	9.7	1.84
MIAMI	57	25	3.1	3.0	3.2	3.7	4.0	4.8	5.3	6.3	8.1	9.8	11.1	5.5	5.0	1.54
	59	24	2.3	2.2	2.9	3.2	4.1	4.4	4.9	6.7	7.4	12.2	14.0	5.6	4.8	1.74
	61	26	2.4	3.8	4.3	5.0	5.6	6.3	7.0	7.4	8.2	8.8	12.3	6.5	6.1	1.46
	57 61	75	2.3	2.9	3.4	4.0	4.4	5.2	6.1	7.0	8.1	9.8	14.0	5.9	5.3	1.59
ORLANDO	59	24	3.4	3.5	4.2	4.7	5.1	6.3	7.0	8.8	10.3	12.2	27.8	7.8	6.7	1.69
	61	21	1.6	2.0	3.8	4.1	4.4	5.0	5.8	6.9	8.8	11.3	12.7	5.8	5.1	1.71
	59 61	45	1.6	3.4	3.9	4.4	4.8	5.3	6.5	7.9	9.8	11.8	27.8	6.9	5.9	1.72
ST PETERSBURG	61	25	3.1	3.1	3.3	3.6	3.8	4.1	4.2	4.5	4.8	5.3	8.9	4.3	4.1	1.31
TAMPA	57	25		3.4	3.8	4.3	4.6	5.0	5.3	7.4	7.9	8.6	9.9	5.5	4.4	2.84
	58	26	3.4	4.8	5.3	6.3	6.7	7.4	8.8	9.8	12.9	14.4	28.8	9.5	8.3	1.66
	59	26	3.9	5.3	5.6	6.1	6.6	7.4	8.5	9.3	10.9	12.2	23.6	8.9	8.1	1.53
	60	26	1.8	3.0	3.8	4.8	5.1	6.0	7.0	7.9	9.6	12.2	25.9	7.4	6.2	1.80
	61	26	2.6	2.8	3.1	4.5	4.9	5.8	6.7	7.2	10.3	13.3	15.1	7.0	6.0	1.72
	57 61	129		3.3	4.5	5.0	5.7	6.5	7.2	8.3	9.8	13.3	28.8	7.7	6.5	1.99
GEORGIA																
ATLANTA	57	26	4.1	5.7	6.1	7.4	7.6	7.9	8.2	8.4	8.7	10.3	18.5	8.1	7.8	1.34
	58	21	4.2	4.5	5.3	8.0	8.5	10.3	13.3	17.0	23.6	45.9	70.0	17.6	12.3	2.24
	59	24	3.2	5.8	7.8	8.5	9.6	10.3	11.6	15.7	17.0	23.6	46.5	14.0	11.8	1.79
	60	23	3.5	5.3	6.1	6.9	8.8	10.3	11.6	12.9	14.4	20.0	25.2	11.4	10.0	1.67
	61	23	3.2	3.5	5.6	6.1	6.5	6.9	7.2	7.8	8.5	11.3	29.5	8.0	7.1	1.58
	57 61	117	3.2	5.3	6.0	7.0	7.8	8.4	9.2	11.1	14.4	20.0	70.0	11.6	9.5	1.79
AUGUSTA	58	25	2.1	4.0	4.5	5.5	5.9	7.4	8.1	9.6	12.2	27.9	48.2	10.9	8.1	2.07
	61	26	2.6	3.2	3.8	4.2	4.5	7.4	8.1	8.6	11.3	14.4	35.2	8.3	6.7	1.90
	58 61	51	2.1	3.4	4.1	4.5	5.6	7.4	8.1	8.8	11.6	20.0	48.2	9.6	7.3	1.98
COLUMBUS	57	26	3.5	3.9	4.0	4.3	4.4	6.9	8.1	8.8	12.2	15.7	22.1	8.1	6.9	1.76
	60	25	3.0	4.5	5.3	6.1	6.9	9.4	10.0	12.6	13.5	17.0	28.5	9.8	8.6	1.71
	57 60	51	3.0	3.9	4.2	4.9	6.1	7.8	9.3	10.9	13.3	16.1	28.5	9.0	7.7	1.74
MACON	58	25	4.4	4.9	5.3	6.3	7.4	8.8	9.6	12.2	14.4	27.9	43.9	12.3	9.7	1.91
	60	25	2.5	2.7	4.3	5.0	5.8	7.0	7.9	12.2	13.7	27.9	36.7	10.3	7.6	2.12
	58 60	50	2.5	4.2	4.8	5.5	6.5	7.6	8.8	11.3	14.0	25.8	43.9	11.3	8.6	2.02

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SAVANNAH	59	23	1.5	1.7	3.0	3.5	5.3	6.7	7.4	8.1	8.8	17.0	34.3	8.0	5.9	2.22
	61	26	1.9	2.7	3.2	4.0	4.5	5.6	6.3	8.8	11.3	14.4	36.5	8.1	6.1	2.06
	59 61	49	1.5	2.2	3.1	3.8	5.0	6.0	6.9	8.2	10.3	17.0	36.5	8.1	6.0	2.12
HAWAII																
HONOLULU	57	25	1.5	1.7	2.2	2.4	2.6	2.9	3.2	4.3	4.9	6.0	6.7	3.5	3.2	1.57
	58	23	4.1	4.3	5.3	5.8	6.3	7.6	8.1	8.6	9.3	11.3	14.3	7.5	7.1	1.38
	59	25	.9	2.7	2.9	3.2	3.8	5.1	6.3	7.4	8.0	8.8	12.1	5.4	4.6	1.83
	60	26	1.9	2.0	2.6	3.0	3.3	3.7	4.6	4.9	5.3	5.8	8.6	4.1	3.5	1.48
	61	25	.8	.9	1.5	1.7	2.2	2.5	2.6	3.8	4.5	6.9	8.0	3.0	2.5	1.91
	57 61	124	.8	1.7	2.4	2.7	3.3	4.1	4.9	5.7	6.9	8.4	14.3	4.6	3.9	1.83
IDAHO																
BOISE	57	26	2.5	4.0	4.3	4.8	5.1	6.3	8.3	10.8	12.2	14.4	23.7	8.4	7.1	1.79
	58	25	2.9	4.5	5.3	6.9	7.4	9.0	9.6	10.3	14.4	17.0	32.6	10.4	8.9	1.76
	59	26	4.6	5.3	6.0	8.1	9.3	10.7	11.8	14.4	18.5	23.6	33.6	12.6	10.8	1.76
	60	24	4.3	5.3	6.9	7.9	9.6	10.6	11.3	12.2	13.7	21.8	36.8	12.0	10.5	1.66
	61	25	3.4	4.2	4.9	6.3	7.0	8.1	8.8	10.9	12.2	17.0	30.1	9.4	8.1	1.70
	57 61	126	2.5	4.4	5.2	6.4	7.6	8.9	10.4	11.7	14.2	18.8	36.8	10.6	9.0	1.76
ILLINOIS																
CHICAGO	58	21	7.7	8.8	12.2	13.1	14.0	16.1	17.8	19.3	21.2	23.6	39.0	17.3	15.9	1.52
	59	19	7.7	8.8	12.6	13.5	14.4	15.4	16.0	17.0	20.0	21.8	21.9	15.5	15.0	1.33
	60	21	7.4	8.1	9.3	10.3	12.2	14.4	15.4	16.5	18.5	23.6	26.5	14.5	13.6	1.42
	61	26	5.9	8.8	9.4	10.3	10.9	11.9	14.4	15.7	18.5	21.8	25.3	13.6	12.8	1.45
	58 61	87	5.9	8.6	10.0	11.6	13.1	14.4	15.6	17.0	19.7	22.5	39.0	15.1	14.2	1.44
EAST ST LOUIS	58	22	2.7	8.8	11.3	16.1	18.5	23.6	26.5	29.6	35.9	45.9	68.0	25.1	20.3	2.07
	61	23	5.5	6.0	8.8	9.8	12.2	15.7	18.5	23.6	30.4	38.9	58.5	19.5	15.6	1.98
	58 61	45	2.7	7.4	9.6	12.2	15.4	18.5	23.6	28.9	32.9	42.4	68.0	22.2	17.7	2.04
PEORIA	58	25	5.4	6.3	6.9	7.9	8.8	9.9	12.2	14.4	17.0	43.6	52.7	15.6	12.0	1.96
ROCKFORD	59	26	1.8	3.2	3.8	5.6	6.3	7.4	8.2	8.8	9.9	11.3	21.9	7.5	6.5	1.77
	61	26	2.5	3.9	4.2	4.8	5.3	6.3	7.0	7.4	9.3	10.3	15.4	6.8	6.2	1.53
	59 61	52	1.8	3.2	4.2	5.1	6.0	6.7	7.4	8.4	9.7	11.3	21.9	7.1	6.3	1.65
INDIANA																
EAST CHICAGO	57	20	3.2	7.9	8.8	9.6	10.3	11.6	15.3	17.0	21.2	23.6	36.0	15.1	13.0	1.78
	58	20	5.2	5.8	6.6	7.1	8.8	10.7	11.4	12.2	13.7	17.0	20.7	10.8	9.9	1.52
	59	23	2.5	2.7	3.8	5.8	6.6	7.4	8.3	9.3	10.3	17.0	20.1	8.4	7.0	1.67
	60	24	2.8	3.2	4.5	5.3	7.0	7.7	8.2	9.2	9.9	14.4	16.5	8.0	7.2	1.62
	61	25	1.9	4.8	5.3	6.7	7.0	7.7	8.2	9.3	10.3	15.7	23.7	8.5	7.6	1.65
	57 61	112	1.9	4.0	5.6	6.8	7.6	8.5	9.5	10.8	14.0	17.0	36.0	10.0	8.5	1.76
EVANSVILLE	57	25	1.9	3.2	3.8	4.2	4.5	5.1	5.6	7.4	8.0	8.8	19.0	6.0	5.3	1.64
	60	26	2.0	4.9	5.8	7.4	8.8	9.7	10.8	11.7	14.4	20.0	43.2	11.2	9.3	1.83
	57 60	51	1.9	3.5	4.3	4.9	5.7	7.4	8.4	9.6	11.3	17.0	43.2	8.6	7.1	1.86
FORT WAYNE	57	26	3.2	3.8	4.5	5.8	6.3	7.4	9.6	10.3	13.3	17.0	28.2	9.5	8.0	1.79
	60	26	4.9	5.8	6.7	7.7	8.2	9.3	10.6	11.3	12.2	13.7	19.8	10.0	9.4	1.44
	57 60	52	3.2	4.5	5.6	6.7	7.6	8.8	9.9	11.0	12.6	17.0	28.2	9.8	8.7	1.63
GARY	58	26	3.2	10.5	11.0	11.7	12.2	14.4	15.5	16.3	18.0	20.0	46.8	15.5	14.0	1.59
	60	24	4.2	6.3	8.3	9.0	9.7	10.1	11.3	13.3	14.4	17.0	21.7	11.4	10.7	1.46
	58 60	50	3.2	7.4	9.2	10.3	11.3	12.2	13.8	15.2	16.5	20.0	46.8	13.5	12.3	1.56
HAMMOND	59	25	1.6	4.9	6.3	7.4	8.8	11.3	12.2	14.4	17.0	21.2	23.3	11.5	9.7	1.95
	61	26	2.1	2.7	4.0	5.3	6.7	7.8	8.8	9.4	10.3	15.7	22.4	8.3	7.1	1.82
	59 61	51	1.6	2.7	4.8	6.5	7.4	8.8	10.0	11.8	15.1	19.0	23.3	9.9	8.3	1.91
INDIANAPOLIS	57	25	2.5	6.3	7.0	8.1	8.8	10.3	11.6	14.4	17.0	19.3	34.8	11.9	10.4	1.70
	58	24	8.7	10.3	12.6	13.3	14.4	15.1	15.9	17.0	20.0	27.9	78.0	18.3	16.1	1.55
	59	21	8.5	9.3	10.3	12.2	14.4	20.0	21.4	22.9	25.8	30.4	37.0	19.2	17.5	1.56
	60	25	6.3	8.8	9.6	10.9	12.2	15.3	16.1	18.5	21.2	25.8	30.8	15.2	14.0	1.52
	61	24	6.1	7.4	9.6	10.9	12.6	13.5	14.4	16.4	17.8	20.0	45.6	14.9	13.6	1.52
	57 61	119	2.5	7.7	9.4	10.9	12.6	14.3	15.7	17.4	20.0	24.5	78.0	15.8	14.0	1.62
SOUTH BEND	59	23	4.5	4.5	6.1	7.4	8.0	8.8	10.3	12.2	13.7	21.8	36.3	11.1	9.6	1.68
	61	26	2.7	3.6	4.5	5.1	5.6	6.3	7.1	9.2	10.3	12.2	26.6	7.8	6.7	1.69
	59 61	49	2.7	4.0	5.1	5.8	6.5	7.7	8.8	10.0	12.2	15.7	36.3	9.3	8.0	1.73

TABLE 2.10—BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TERRE HAUTE	61	26	4.2	5.8	7.4	8.2	8.8	11.7	17.0	18.5	21.2	23.6	34.3	14.9	12.5	1.84
IOWA																
DAVENPORT	58	20	5.2	5.6	6.3	7.0	7.6	8.0	8.4	8.8	11.3	14.4	20.1	9.3	8.7	1.45
	61	26	3.7	4.5	4.9	5.5	5.9	6.7	7.7	8.2	9.6	12.9	23.6	7.9	7.2	1.53
	58 61	46	3.7	4.8	5.4	6.1	6.7	7.5	8.1	8.6	10.3	13.3	23.6	8.5	7.8	1.51
DES MOINES	57	26	.6	3.5	4.2	4.8	5.0	5.6	6.9	8.1	10.3	12.2	18.3	7.3	6.0	2.00
	58	26	3.8	5.5	5.9	6.7	7.4	9.1	10.0	11.3	14.4	17.0	29.6	10.8	9.4	1.68
	59	25	1.8	5.3	5.6	6.0	6.3	8.8	10.3	13.3	18.0	23.6	25.5	10.8	8.9	1.92
	60	25	2.0	3.8	4.9	8.8	9.8	10.9	11.6	13.3	17.0	23.6	39.4	12.1	9.9	2.02
	61	24	3.3	3.8	4.9	5.3	6.3	8.3	9.3	10.6	11.3	12.2	17.5	8.4	7.6	1.57
	57 61	126	.6	4.0	5.0	5.7	6.6	8.5	9.9	11.1	13.1	18.7	39.4	9.9	8.2	1.88
KANSAS																
KANSAS CITY	60	26	3.3	3.8	4.5	6.0	7.4	8.8	9.9	10.9	12.9	14.4	21.3	9.0	7.9	1.67
TOPEKA	59	24	.8	1.7	2.7	3.2	4.3	5.3	5.6	6.0	6.3	8.8	17.6	5.4	4.5	1.92
	61	23	1.5	3.0	4.0	4.5	4.8	5.3	6.3	7.9	8.8	12.2	14.2	6.4	5.7	1.67
	59 61	47	.8	2.3	3.1	4.0	4.6	5.3	5.7	6.3	8.1	10.3	17.6	5.9	5.0	1.81
WICHITA	57	26	1.8	2.6	2.8	3.1	3.3	3.7	4.0	4.2	4.5	4.9	6.1	3.7	3.6	1.31
	58	22	3.3	5.3	6.3	7.1	8.1	9.0	9.6	10.0	11.3	12.2	13.2	8.5	8.1	1.40
	59	21	2.2	3.0	3.4	3.8	4.6	5.0	5.3	6.0	6.9	8.1	9.0	5.2	4.9	1.45
	60	22	2.7	3.2	4.9	6.5	6.9	7.2	7.7	8.2	9.6	11.3	17.3	7.5	6.9	1.54
	61	24	.9	1.7	2.7	3.6	5.3	6.0	6.5	6.9	7.2	8.8	22.8	6.3	5.1	1.97
	57 61	115	.9	2.8	3.4	4.0	4.8	5.6	6.5	7.2	8.4	10.3	22.8	6.2	5.4	1.69
KENTUCKY																
LOUISVILLE	61	21	4.0	5.3	5.7	6.1	7.8	8.8	9.8	10.8	11.7	14.4	42.7	10.9	9.1	1.74
LOUISANA																
BATON ROUGE	57	24	3.5	5.6	7.4	8.8	10.3	11.1	11.8	13.3	14.4	26.5	31.5	12.9	11.3	1.70
	60	26	4.0	5.3	6.0	7.9	8.8	9.9	11.1	11.8	14.4	23.6	41.9	12.7	10.4	1.82
	57 60	50	3.5	5.5	6.3	8.2	9.4	10.5	11.4	12.6	14.4	26.5	41.9	12.8	10.8	1.75
NEW ORLEANS	57	26	2.4	3.8	4.3	6.3	7.0	8.3	10.9	12.2	17.0	21.8	41.6	[illegible]	8.8	2.08
	58	25	1.8	6.3	7.0	8.3	9.3	12.2	12.9	14.0	15.7	20.0	23.5	11.6	10.2	1.76
	59	26	2.9	4.8	5.3	7.4	8.0	8.8	10.9	12.2	13.5	14.4	19.1	9.7	8.7	1.63
	60	26	3.9	5.8	6.3	6.9	7.2	8.8	9.7	10.3	12.2	13.3	18.7	9.2	8.6	1.43
	61	26	4.9	5.3	7.4	9.3	9.8	10.9	12.8	13.9	15.4	16.5	20.8	11.7	10.9	1.49
	57 61	129	1.8	4.8	6.3	7.3	8.5	9.7	11.0	12.7	14.1	17.4	41.6	10.7	9.4	1.69
SHREVEPORT	59	25	.7	1.7	3.0	3.8	5.3	7.4	8.0	8.8	10.9	17.0	28.8	7.8	5.7	2.33
	61	24	3.3	4.2	6.3	6.6	7.0	7.3	7.9	9.6	13.3	23.6	25.0	9.9	8.4	1.73
	59 61	49	.7	3.0	4.0	5.8	6.7	7.3	7.9	8.8	11.6	18.5	28.8	8.8	6.9	2.08
MAINE																
PORTLAND	58	23	4.8	5.0	6.0	6.6	7.1	9.8	11.3	15.3	17.0	20.0	33.4	12.0	10.3	1.75
	59	21	2.2	3.0	3.4	3.7	4.9	6.3	7.4	8.3	9.6	12.2	19.5	7.0	6.0	1.75
	60	24	3.1	3.8	4.3	4.9	5.8	6.3	7.0	8.1	8.8	12.2	15.0	7.0	6.5	1.50
	61	26	1.8	2.3	2.7	3.6	4.5	5.7	6.3	6.9	8.1	10.9	28.3	6.4	5.3	1.86
	58 61	94	1.8	3.1	3.9	5.0	5.8	6.5	7.2	8.6	10.6	15.7	33.4	8.1	6.7	1.81
MARYLAND																
BALTIMORE	57	26	2.5	5.3	6.3	8.1	8.8	9.9	11.6	12.8	14.4	18.5	33.6	11.3	9.9	1.70
	58	25	3.5	7.7	8.2	9.2	9.9	11.6	12.6	13.7	14.4	21.8	35.5	12.6	11.3	1.58
	59	25	6.9	8.0	8.5	10.3	11.3	12.9	14.4	16.4	18.5	23.6	31.3	14.2	13.1	1.51
	60	25	3.3	5.3	6.0	7.4	8.8	9.7	10.3	15.7	18.5	25.8	55.0	13.2	10.4	1.95
	61	26	5.4	8.0	8.5	9.8	10.7	11.8	13.1	14.0	17.0	20.0	42.0	13.8	12.4	1.54
	57 61	127	2.5	6.3	7.9	8.7	9.8	11.1	12.5	14.1	16.8	21.5	55.0	13.0	11.4	1.67
MASSACHUSETTS																
BOSTON	57	26	4.4	5.3	5.7	6.3	7.0	8.8	10.3	12.8	14.4	16.1	18.2	9.9	9.0	1.56
	58	24	5.8	6.3	7.4	8.8	10.3	12.2	15.7	18.0	20.0	23.6	29.9	14.3	12.7	1.64
	59	26	4.4	7.4	8.1	10.3	11.3	12.5	13.5	14.1	17.0	19.0	26.1	12.9	12.0	1.50
	60	26	4.0	6.6	7.1	8.8	9.3	10.0	11.6	14.4	17.0	20.0	35.8	12.8	11.3	1.64
	61	24	4.6	5.0	7.9	8.8	10.3	11.1	11.8	17.0	18.5	23.6	34.7	13.1	11.4	1.69
	57 61	126	4.0	5.9	7.1	8.4	9.6	10.9	12.8	15.0	17.4	20.0	35.8	12.6	11.2	1.62

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
BROCKTON	58	24	2.7	4.0	4.5	5.6	7.4	8.1	8.8	14.4	20.0	45.9	103.2	17.5	10.4	2.58
	59	22	.8	2.0	3.2	5.3	7.0	8.8	10.3	14.4	19.0	25.8	104.0	14.3	8.3	2.84
	60	25	.2	1.7	2.0	2.5	3.0	3.8	4.5	7.0	8.8	13.3	16.2	5.4	3.8	2.60
	61	26	2.8	3.4	3.8	4.8	5.3	6.1	7.4	10.7	11.8	17.0	50.9	9.4	7.2	1.98
	58 61	97	.2	2.4	3.3	4.2	5.4	6.7	8.0	10.3	14.4	20.0	104.0	11.5	6.9	2.65
CAMBRIDGE	59	25	3.8	5.6	6.3	6.7	7.0	7.4	8.1	9.6	12.2	17.0	56.4	10.6	8.7	1.74
	60	26	1.1	1.7	2.0	3.2	4.0	4.9	6.3	7.0	8.8	11.3	28.4	6.2	4.7	2.16
	61	24	.9	2.3	4.2	4.5	6.0	6.7	7.4	8.5	9.3	17.0	34.3	8.2	6.4	2.06
	59 61	75	.9	2.3	4.0	5.0	6.1	6.8	7.3	8.4	9.8	15.3	56.4	8.3	6.4	2.07
FALL RIVER	58	23	2.4	4.5	5.3	6.0	7.4	9.3	10.3	12.9	14.4	19.0	26.8	10.4	8.9	1.81
	60	23	2.6	3.9	4.3	4.5	6.6	7.4	10.3	11.6	13.3	18.0	19.1	9.1	7.8	1.80
	61	21	3.1	3.8	5.3	6.9	7.6	8.3	8.8	10.3	12.9	14.4	24.2	9.5	8.4	1.66
	58 61	67	2.4	4.1	4.7	6.1	7.2	8.3	9.6	11.8	13.9	17.9	26.8	9.7	8.3	1.75
LAWRENCE	57	26	1.7	1.8	2.0	2.8	3.1	3.6	4.3	5.8	7.0	8.8	12.3	4.7	4.0	1.80
	60	25	2.5	2.7	3.0	3.6	4.0	4.7	5.1	5.8	6.3	8.8	13.4	5.1	4.6	1.54
	61	23	2.2	3.2	5.3	6.0	6.7	10.9	12.2	13.7	14.9	16.5	23.0	9.9	8.5	1.84
	57 61	74	1.7	2.3	3.0	3.5	4.3	5.2	6.0	7.0	10.3	14.0	23.0	6.5	5.3	1.88
LOWELL	59	22	.9	1.7	2.7	3.8	5.0	5.6	6.3	7.7	8.5	10.3	17.2	6.2	5.1	1.99
	61	21	1.1	2.0	2.8	3.1	3.5	6.3	8.1	8.8	10.3	14.4	36.4	7.9	5.6	2.32
	59 61	43	.9	2.0	2.9	3.2	4.5	5.8	7.6	8.2	8.8	12.2	36.4	7.0	5.3	2.13
LYNN	57	21	2.1	3.8	4.5	6.3	6.7	7.4	8.3	12.2	14.4	20.0	33.3	10.1	8.2	1.94
	60	26	2.5	3.2	4.1	4.5	5.8	6.5	6.9	7.2	7.9	8.8	10.4	6.1	5.7	1.48
	61	26	3.5	3.7	4.5	5.8	6.3	7.1	10.3	11.3	14.4	27.9	47.5	12.4	8.9	2.14
	57 61	73	2.1	3.6	4.3	5.6	6.4	6.9	7.3	8.6	11.4	17.0	47.5	9.5	7.4	1.91
NEW BEDFORD	59	25	1.6	3.2	3.5	3.9	4.2	4.5	4.9	5.8	6.9	10.3	17.8	5.6	4.8	1.70
	60	26	.6	.7	1.1	1.6	2.2	2.7	4.2	4.9	6.0	7.4	12.3	3.8	2.8	2.38
	61	25	1.9	3.4	3.6	4.2	4.6	5.0	5.2	6.3	6.9	10.3	11.7	5.5	5.0	1.51
	59 61	76	.6	1.6	2.5	3.5	3.9	4.4	4.9	5.4	6.6	8.8	17.8	4.9	4.0	1.99
QUINCY	58	25	2.7	3.5	4.2	5.3	6.0	8.8	9.6	10.9	12.2	23.6	43.9	10.2	7.8	2.01
	59	23	.5	2.3	4.2	5.3	6.7	7.4	8.8	11.3	13.3	18.0	19.0	8.8	6.9	2.29
	60	23	3.3	5.3	6.9	7.8	8.5	9.6	10.3	12.2	15.7	20.0	31.9	11.7	10.0	1.74
	61	23	2.9	3.8	5.8	7.9	8.8	9.9	10.9	12.2	20.0	22.7	25.7	11.9	9.9	1.92
	58 61	94	.5	3.6	4.9	6.3	7.7	8.9	10.0	11.6	15.4	20.7	43.9	10.6	8.5	2.01
SOMERVILLE	57	25	1.7	3.5	4.2	4.8	5.0	5.6	6.3	7.1	7.9	9.6	12.0	5.9	5.5	1.51
	60	25	1.7	3.4	3.6	3.9	4.2	5.6	6.3	7.4	8.8	13.3	15.2	6.5	5.7	1.68
	61	25	1.3	2.7	3.6	4.8	5.1	6.0	6.6	7.4	8.0	8.8	11.3	5.9	5.3	1.66
	57 61	75	1.3	3.3	3.7	4.4	4.9	5.6	6.4	7.2	8.1	9.7	15.2	6.1	5.5	1.61
SPRINGFIELD	58	26	2.6	3.2	3.8	4.6	4.9	5.3	6.9	7.7	8.5	11.3	25.9	7.0	6.0	1.67
	59	23	1.3	1.7	3.8	6.3	7.0	8.8	9.6	10.3	13.3	23.6	27.0	10.0	7.7	2.19
	60	21	1.8	2.0	2.7	4.5	5.3	7.0	7.9	8.8	10.3	12.2	17.1	7.3	6.1	1.90
	61	25	2.1	3.8	4.9	5.8	6.3	7.0	7.4	8.5	9.6	20.0	47.0	9.4	7.3	1.93
	58 61	95	1.3	3.0	4.0	5.0	5.9	6.9	7.7	8.7	10.3	17.0	47.0	8.4	6.7	1.92
WORCESTER	57	26	2.0	2.7	3.8	5.6	6.3	7.1	7.8	8.2	8.8	10.3	13.7	6.9	6.3	1.64
	59	25	5.3	6.3	6.7	7.2	7.6	8.2	8.6	10.7	11.4	14.4	47.9	11.3	9.3	1.71
	60	26	1.2	1.4	2.7	4.0	4.5	6.3	7.4	8.0	8.8	12.2	18.2	6.8	5.3	2.12
	61	26	2.3	2.7	3.2	3.8	5.8	7.4	8.2	8.8	13.1	14.0	35.0	8.7	6.9	2.00
	57 61	103	1.2	2.6	4.0	5.6	6.6	7.4	8.0	8.6	10.7	13.3	47.9	8.4	6.8	1.92
MICHIGAN																
DEARBORN	59	26	5.3	6.6	6.9	7.4	9.0	9.7	10.3	11.6	14.4	16.1	29.0	10.8	10.0	1.47
	61	22	4.6	4.9	5.3	7.4	8.8	10.7	11.4	12.2	13.5	14.4	44.5	11.3	9.8	1.67
	59 61	48	4.6	5.3	6.8	7.3	9.0	9.9	11.0	12.2	13.5	15.7	44.5	11.0	9.9	1.56
DETROIT	57	23	3.8	4.5	6.0	6.9	8.1	9.8	10.7	11.4	12.2	18.5	27.0	10.3	9.2	1.62
	58	25	3.6	4.5	5.8	7.4	9.1	10.0	12.2	13.9	15.7	20.0	22.4	11.0	9.7	1.71
	59	26	3.8	6.3	7.4	8.2	8.8	9.9	11.6	12.9	18.5	21.2	29.1	11.8	10.5	1.63
	60	26	2.7	5.8	6.7	7.8	8.5	9.6	10.9	12.2	14.4	17.0	27.3	11.0	9.9	1.64
	61	26	4.2	5.3	5.8	6.7	7.4	8.5	9.3	9.8	11.3	13.3	18.8	8.9	8.2	1.47
	57 61	126	2.7	5.3	6.2	7.4	8.5	9.4	10.3	11.9	14.1	18.7	29.1	10.6	9.5	1.61

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
FLINT	57	26	3.5	5.3	5.6	6.0	6.3	7.6	8.3	8.8	12.2	13.7	20.0	8.7	7.9	1.55
	59	26	3.6	4.8	5.1	6.3	6.7	7.4	9.4	9.9	11.3	12.9	17.4	8.6	8.0	1.50
	57 59	52	3.5	4.8	5.4	6.1	6.8	7.6	8.8	9.7	11.7	13.7	20.0	8.7	7.9	1.52
JACKSON	58	24	1.5	3.0	3.8	4.3	4.8	5.1	5.8	7.0	10.3	12.2	12.6	6.4	5.6	1.69
	61	26	2.4	4.5	4.8	5.3	5.8	6.7	7.9	8.8	9.9	11.3	14.9	7.3	6.7	1.53
	58 61	50	1.5	3.4	4.3	4.8	5.2	6.0	6.9	8.3	10.0	11.8	14.9	6.9	6.2	1.62
KALAMAZOO	57	24	.7	1.5	2.7	3.0	3.3	3.5	3.7	5.0	6.3	7.9	8.6	4.2	3.6	1.81
	60	25	2.5	3.0	3.4	3.8	4.5	5.3	5.8	7.4	8.1	10.3	14.8	5.8	5.2	1.60
	57 60	49	.7	2.5	3.0	3.3	3.6	4.5	5.0	5.9	7.4	8.4	14.8	5.0	4.4	1.75
LANSING	57	24	2.5	3.2	3.5	3.6	4.5	4.9	5.3	6.1	6.7	8.8	10.1	5.2	4.9	1.44
	60	25	2.3	3.2	4.0	4.9	5.6	6.5	6.9	7.4	8.3	14.4	17.0	6.9	6.1	1.64
	57 60	49	2.3	3.2	3.6	4.2	4.9	5.6	6.2	6.8	7.4	9.3	17.0	6.1	5.5	1.56
SAGINAW	58	26	5.1	6.0	6.5	7.0	7.4	8.5	9.3	9.8	11.3	14.4	16.4	9.1	8.7	1.36
	60	26	2.5	4.2	4.5	5.0	5.3	6.9	7.9	8.8	9.7	10.3	14.5	7.2	6.6	1.51
	58 60	52	2.5	4.5	5.2	6.4	7.0	7.6	8.6	9.3	10.2	12.2	16.4	8.1	7.6	1.47
MINNESOTA																
DULUTH	57	25	2.0	4.2	4.7	5.3	5.7	6.3	6.9	7.9	8.8	13.3	28.0	7.5	6.5	1.66
	59	26	.8	1.6	2.9	3.8	4.0	4.4	4.9	5.3	6.9	7.4	15.9	5.2	4.3	1.93
	61	26	1.7	2.7	3.3	3.5	3.7	4.3	5.3	6.3	7.4	9.6	11.2	5.3	4.7	1.69
	57 61	77	.8	2.7	3.4	3.9	4.4	5.1	5.8	6.7	7.7	10.3	28.0	6.0	5.1	1.80
MINNEAPOLIS	57	24	.9	2.0	3.2	3.8	5.0	6.3	6.9	7.8	8.5	10.3	18.1	6.3	5.3	1.94
	58	26	3.5	4.3	4.7	5.1	5.6	6.3	8.1	9.3	11.3	17.0	43.1	9.1	7.4	1.80
	59	26	2.5	3.2	3.9	4.4	5.3	5.8	6.3	7.0	10.3	11.6	15.6	6.6	5.9	1.61
	60	26	3.1	3.6	4.2	4.9	5.3	6.3	7.4	9.2	10.3	13.3	25.0	8.1	6.9	1.74
	61	26	.8	1.7	3.2	3.6	3.8	4.5	5.1	6.3	9.3	10.3	30.7	6.4	4.8	2.13
	57 61	128	.8	3.1	3.8	4.4	5.0	5.8	6.7	8.1	9.7	12.8	43.1	7.3	6.0	1.87
ST PAUL	58	24	3.4	3.8	5.9	6.3	7.0	7.4	8.8	10.3	12.2	17.0	66.7	12.0	9.1	1.94
	60	25	4.8	5.6	6.3	7.1	8.1	9.1	9.5	10.0	10.3	12.7	27.4	9.4	8.7	1.45
	61	26	2.7	4.8	5.3	6.1	6.5	7.2	8.3	9.2	10.3	12.2	18.4	8.2	7.4	1.58
	58 61	75	2.7	5.1	5.8	6.5	7.0	8.0	9.1	9.8	10.8	15.7	66.7	9.8	8.3	1.67
MISSISSIPPI																
JACKSON	57	24	.8	.8	1.8	2.0	3.2	3.6	4.0	5.3	7.0	12.2	22.0	5.3	3.7	2.44
	58	24	2.5	2.7	3.8	4.9	6.0	6.9	8.8	11.6	14.4	18.0	18.5	8.7	7.2	1.92
	59	26	.8	2.6	3.4	3.8	4.8	5.8	6.7	7.0	8.1	10.9	44.3	7.2	5.4	2.04
	60	24	1.6	2.7	3.6	4.0	5.3	5.6	6.0	6.9	7.9	12.7	17.7	6.3	5.5	1.71
	61	20	1.6	1.7	2.9	3.2	3.8	4.5	6.3	7.8	8.5	10.3	35.6	7.5	5.2	2.22
	57 61	118	.8	2.3	3.0	3.6	4.3	5.4	6.4	7.3	8.8	13.3	44.	7.0	5.3	2.11
MISSOURI																
KANSAS CITY	57	26	2.8	3.2	4.9	6.3	7.0	8.1	9.3	10.3	15.1	16.4	30.1	9.6	8.2	1.79
	58	24	5.5	7.4	9.8	10.8	12.2	13.3	14.4	19.0	21.2	32.9	37.4	15.9	14.1	1.65
	59	22	4.1	5.3	5.7	6.3	7.9	8.8	9.6	10.3	12.2	14.4	26.4	9.6	8.7	1.56
	60	26	5.6	6.3	6.7	7.2	7.6	8.3	9.6	11.3	15.1	16.4	21.2	10.1	9.4	1.46
	61	24	3.4	4.0	5.4	5.7	6.1	6.3	7.0	8.3	10.3	21.8	31.9	9.6	7.9	1.82
	57 61	122	2.8	5.1	5.9	6.8	7.7	8.7	10.1	12.7	15.8	20.0	37.4	11.0	9.4	1.72
ST LOUIS	57	25	2.2	4.5	7.7	8.5	9.6	10.9	11.6	12.8	13.9	20.0	27.1	11.6	10.1	1.79
	58	23	7.0	7.4	9.3	10.3	11.6	13.7	17.0	19.0	21.8	26.5	30.3	15.5	14.0	1.57
	59	24	.9	2.7	8.1	9.3	11.3	13.3	15.7	19.0	23.6	32.9	87.5	17.8	12.6	2.47
	60	26	5.2	6.9	7.8	8.8	9.6	12.2	15.1	16.4	20.0	22.4	25.5	13.2	12.0	1.59
	61	26	4.3	5.3	6.3	7.4	8.3	10.3	11.4	12.2	18.5	23.6	25.2	11.9	10.4	1.70
	57 61	124	.9	5.9	7.7	8.7	10.1	11.4	13.1	16.4	19.5	24.8	87.5	13.9	11.7	1.84
MONTANA																
HELENA	57	25		.8	.9	1.6	1.8	2.0	2.4	2.7	3.0	3.8	4.2	2.2	1.7	2.43
	58	26	.9	1.5	1.6	1.8	1.9	2.7	3.6	4.0	4.5	6.3	13.5	3.8	2.9	2.01
	59	25	.8	.9	1.4	1.7	1.9	2.2	2.5	2.9	3.1	4.9	5.8	2.4	2.1	1.74
	60	26	.8	.9	1.5	1.6	1.6	1.7	2.5	2.6	3.4	3.8	13.6	2.8	2.2	1.87
	61	25	.8	.8	.9	1.5	1.6	2.2	2.7	3.4	3.8	4.5	8.4	2.7	2.1	2.04
	57 61	127		.8	1.4	1.6	1.8	2.2	2.6	3.0	3.7	4.4	13.6	2.8	2.2	2.04
NEBRASKA																
LINCOLN	57	26	2.4	3.4	3.8	4.2	4.5	4.8	5.2	5.8	6.9	7.4	17.5	5.7	5.2	1.50
	60	25	1.5	2.2	2.8	3.0	3.2	3.7	4.0	4.5	6.0	9.6	10.2	4.5	3.9	1.68
	57 60	51	1.5	2.7	3.1	3.5	3.9	4.3	4.8	5.5	6.6	9.1	17.5	5.1	4.5	1.62

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OMAHA	57	26	3.1	3.5	4.0	4.7	5.0	5.5	6.1	7.4	9.6	10.3	15.8	6.8	6.0	1.60
	58	22	4.1	4.5	5.3	6.7	7.4	8.1	8.8	9.8	12.9	14.4	16.6	9.0	8.4	1.50
	59	23	2.4	2.7	5.6	6.1	6.9	8.1	8.8	9.8	10.8	12.2	25.4	8.6	7.5	1.70
	60	26	3.4	4.8	5.3	5.9	6.3	6.8	7.2	8.8	11.3	12.2	17.0	7.9	7.3	1.49
	61	26	2.5	3.5	4.0	4.5	5.5	6.1	7.4	8.8	10.8	11.7	17.1	7.1	6.3	1.66
	57 61	123	2.4	3.9	4.7	5.4	6.0	6.8	7.9	9.3	10.7	12.9	25.4	7.8	7.0	1.60
NEVADA																
LAS VEGAS	57	24	2.5	3.2	4.7	5.0	5.8	6.9	7.9	9.6	10.9	14.4	16.7	7.9	7.0	1.67
	58	22	3.5	4.5	6.3	7.4	8.0	8.5	9.6	10.9	13.3	15.7	19.6	9.5	8.7	1.54
	60	21	2.6	4.2	4.7	5.1	5.5	6.0	6.3	7.4	8.8	16.1	21.2	8.0	6.9	1.68
	61	23	4.0	4.1	4.5	6.3	6.7	7.4	9.0	9.6	10.0	14.4	30.0	9.1	7.9	1.70
	57 61	90	2.5	4.1	4.8	5.5	6.4	7.2	8.3	9.6	11.6	15.1	30.0	8.6	7.6	1.65
NEW HAMPSHIRE																
MANCHESTER	58	20	3.4	3.6	4.5	5.0	5.5	5.8	6.1	7.4	10.3	12.2	25.8	8.0	6.7	1.72
	59	20	2.0	2.7	3.0	3.8	4.5	4.8	5.1	5.8	7.4	9.8	19.5	5.9	5.1	1.69
	60	21	2.3	3.0	4.0	4.3	4.9	6.5	7.0	7.4	9.6	14.4	27.1	7.6	6.3	1.81
	61	21	2.2	3.2	4.2	4.5	5.0	6.0	6.7	7.4	8.8	12.2	16.0	6.9	6.2	1.63
	58 61	82	2.0	3.0	3.9	4.5	5.0	5.6	6.2	7.1	9.3	12.2	27.1	7.1	6.0	1.72
NEW JERSEY																
ATLANTIC CITY	58	25	1.0	2.4	2.5	2.7	2.9	3.2	3.8	4.7	5.1	6.9	10.9	4.0	3.5	1.72
	61	26	.7	1.4	1.7	2.2	2.4	2.8	3.1	4.0	4.8	5.3	8.0	3.3	2.8	1.80
	58 61	51	.7	1.4	2.2	2.5	2.7	3.0	3.5	4.4	5.0	6.0	10.9	3.6	3.1	1.77
CAMDEN	57	26	4.4	6.3	7.4	8.1	8.6	9.6	11.3	12.9	15.7	20.0	24.5	11.6	10.5	1.56
	60	25	4.7	6.3	6.9	7.8	8.5	9.4	10.0	11.3	12.2	13.9	15.7	9.5	9.2	1.35
	57 60	51	4.4	6.1	7.0	7.8	8.5	9.5	10.3	11.9	13.5	16.1	24.5	10.6	9.8	1.47
EAST ORANGE	57	20	1.6	1.9	2.4	2.7	3.2	7.4	8.3	10.3	16.1	20.0	35.8	9.1	6.1	2.55
	60	20	.8	1.4	2.2	3.0	3.5	6.3	7.4	10.3	12.2	25.0	27.1	9.0	5.6	2.84
	57 60	40	.8	1.7	2.3	2.8	3.5	6.7	8.3	10.3	16.1	23.6	35.8	9.0	5.9	2.67
ELIZABETH	58	23	4.0	4.5	6.9	7.8	8.5	12.2	13.1	14.0	17.0	25.0	27.8	12.5	10.9	1.71
	60	24	.9	3.5	6.9	7.7	8.5	10.7	11.4	13.3	15.7	20.0	28.3	11.2	9.2	2.06
	58 60	47	.9	4.5	6.6	7.7	8.5	11.1	12.2	13.8	17.0	21.8	28.3	11.9	10.0	1.89
JERSEY CITY	57	25	4.9	6.9	7.9	9.2	9.9	11.1	11.8	13.3	14.4	20.0	23.8	11.9	11.0	1.47
	59	26	6.7	7.4	8.1	9.3	10.3	11.7	14.4	15.7	17.6	18.8	28.0	12.7	11.8	1.48
	61	24	6.7	7.0	9.3	10.3	11.3	11.9	12.8	14.4	15.7	18.0	19.7	12.4	11.9	1.36
	57 61	75	4.9	7.1	8.3	9.6	10.6	11.6	12.6	14.4	16.4	18.8	28.0	12.3	11.6	1.44
NEWARK	58	22	3.1	3.8	5.4	5.9	6.2	7.4	8.3	9.6	14.4	18.5	23.6	9.3	8.0	1.73
	59	24	4.3	4.8	5.6	6.3	7.4	8.3	9.6	12.2	17.0	19.3	56.2	11.7	9.4	1.84
	60	25	4.5	5.3	6.0	7.4	8.1	9.2	9.9	13.7	15.7	21.2	23.6	10.9	9.6	1.65
	61	25	.8	5.3	6.3	8.1	9.0	9.8	10.3	11.7	13.3	21.8	22.7	10.7	9.0	1.99
	58 61	96	.5	4.9	5.7	6.4	7.6	8.8	9.9	11.7	15.1	19.6	56.2	10.7	9.0	1.80
NEW MEXICO																
ALBUQUERQUE	57	22	6.1	7.4	8.8	9.9	14.4	16.1	18.0	20.0	27.9	32.9	41.0	18.1	15.6	1.74
	58	24	4.6	8.1	10.8	11.7	13.3	14.4	15.7	18.5	21.8	30.4	35.5	16.2	14.6	1.61
	59	24	3.9	4.9	6.7	7.4	8.8	11.3	12.2	13.5	14.4	26.5	52.0	13.4	10.9	1.86
	60	26	5.6	6.3	7.4	9.0	9.6	10.3	12.2	15.7	18.5	23.6	32.3	13.4	11.8	1.65
	61	22	2.0	3.0	3.5	5.0	5.6	6.3	8.8	10.3	15.7	25.8	78.4	12.0	7.3	2.34
	57 61	118	2.0	5.3	6.9	8.5	10.0	11.7	14.0	16.4	20.0	27.4	78.4	14.6	11.8	1.91
NEW YORK																
ALBANY	60	25	.8	1.5	1.6	2.3	2.6	3.2	4.2	4.9	5.8	8.8	14.4	4.2	3.3	1.98
	61	23	.9	1.0	1.7	2.0	2.2	2.7	3.5	4.5	5.3	6.9	7.6	3.4	2.9	1.87
	60 61	48	.8	1.4	1.7	2.0	2.3	2.9	3.9	4.7	5.6	7.0	14.4	3.8	3.1	1.93
BINGHAMTON	57	26	3.2	3.8	4.2	4.8	5.3	6.3	6.9	7.2	8.3	10.3	17.3	6.9	6.3	1.54
	59	25	3.1	3.5	4.5	4.8	5.1	5.6	6.1	7.4	8.3	12.2	16.3	6.5	6.0	1.53
	60	24	2.5	2.9	4.5	5.0	6.3	7.0	7.8	8.8	9.8	12.2	29.7	7.8	6.7	1.72
	61	26	1.5	2.9	3.2	4.1	4.4	5.3	6.1	6.7	8.8	10.3	15.8	6.1	5.3	1.71
	57 61	101	1.5	3.1	4.0	4.6	5.1	5.9	6.[illegible]	7.5	8.8	11.4	29.7	6.8	6.0	1.63
BUFFALO	59	24	1.0	2.7	3.1	3.5	5.0	5.6	6.1	7.4	8.8	10.3	15.8	6.1	5.3	1.81
	60	26	1.8	2.3	2.7	3.4	3.6	4.5	5.1	5.8	7.9	8.8	13.9	5.5	4.7	1.77
	59 60	50	1.0	2.4	3.0	3.4	3.8	5.0	5.6	6.7	8.2	10.3	15.8	5.8	5.0	1.78

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ELMIRA	59	25	.8	2.7	3.8	4.5	5.3	6.1	6.9	8.1	8.8	12.2	25.3	7.1	5.6	2.09
	60	26	1.4	2.7	3.4	3.9	4.1	4.4	5.6	6.1	7.0	8.8	13.7	5.3	4.7	1.64
	61	25	1.3	2.3	3.3	3.7	4.0	4.5	4.8	5.3	5.8	7.4	8.9	4.6	4.2	1.54
	59 61	76	.8	2.4	3.4	3.9	4.2	4.8	5.6	6.1	7.4	9.2	25.3	5.7	4.8	1.78
GLEN COVE	59	22	2.6	3.0	3.4	3.8	4.5	5.3	7.4	8.3	12.2	23.6	37.8	9.8	6.8	2.22
	60	21	1.5	1.7	2.3	2.8	3.1	4.0	4.5	6.9	8.8	17.0	30.2	6.[illegible]	4.8	2.29
	61	25	1.6	2.9	3.2	4.0	4.3	5.3	6.3	8.8	14.4	23.6	34.0	9.0	6.4	2.25
	59 61	68	1.5	2.5	3.0	3.5	4.0	4.7	6.6	8.2	12.2	21.2	37.8	8.6	6.0	2.26
MASSENA	59	20	2.1	2.2	2.7	3.2	3.6	4.5	4.9	5.3	8.1	9.6	13.1	5.1	4.4	1.72
	60	25	1.3	1.4	2.0	2.4	2.5	2.9	3.2	4.2	4.9	6.3	9.7	3.6	3.1	1.70
	61	25	1.3	1.3	1.4	2.0	2.2	2.7	3.0	4.0	4.3	6.3	8.3	3.1	2.7	1.71
	59 61	70	1.3	1.4	2.0	2.3	2.6	3.1	3.7	4.4	5.2	7.8	13.1	3.9	3.3	1.76
MT VERNON	61	25	2.6	4.9	5.5	6.1	7.6	8.8	10.8	12.2	14.4	18.5	22.4	10.1	8.8	1.72
NEW ROCHELLE	59	24	1.4	4.2	5.3	6.3	7.6	8.1	8.6	12.2	13.7	23.6	37.5	10.8	8.5	2.01
	60	26	2.4	4.0	4.5	5.3	8.8	10.7	11.8	13.3	17.0	25.3	81.9	13.8	10.0	2.17
	61	23	3.6	4.5	5.8	7.4	8.0	8.8	9.6	10.3	12.2	23.6	36.5	11.4	9.4	1.84
	59 61	73	1.4	4.2	5.1	6.6	7.9	8.8	10.3	12.0	15.1	25.8	81.9	12.1	9.3	2.00
NEW YORK	57	25	4.8	6.3	7.0	8.8	10.3	11.7	12.6	14.0	15.3	20.0	23.9	11.7	10.8	1.51
	58	25	5.8	8.8	10.3	11.4	12.2	13.3	14.0	17.0	20.0	27.9	33.1	15.5	14.3	1.51
	59	26	3.6	8.8	9.6	11.3	12.5	13.5	14.4	17.0	23.6	27.9	56.0	16.9	14.5	1.74
	60	25	7.3	8.0	8.5	9.6	10.3	12.2	13.3	17.0	18.5	23.6	31.2	13.7	12.6	1.51
	61	26	7.1	8.3	9.2	10.3	11.6	13.1	14.4	17.0	18.5	19.5	32.1	14.0	13.2	1.43
	57 61	127	3.6	7.7	8.9	10.1	11.5	12.8	13.7	15.7	18.7	23.6	56.0	14.4	13.0	1.55
NIAGARA FALLS	59	23	1.8	2.3	3.9	4.2	4.4	4.9	5.3	6.9	8.8	15.7	89.6	9.7	6.0	2.20
ROCHESTER	58	26	4.0	5.8	6.3	7.0	7.4	8.1	8.5	9.4	10.3	12.2	18.9	8.6	8.2	1.38
	59	23	2.8	3.5	4.7	5.1	5.8	7.0	9.3	10.3	11.3	14.4	24.2	8.4	7.3	1.69
	60	26	4.2	4.7	5.1	6.3	7.0	8.1	9.6	10.7	11.8	14.4	46.1	10.1	8.5	1.71
	61	26	3.4	4.0	4.5	5.1	5.5	6.1	6.6	6.9	7.4	8.8	10.2	6.2	6.0	1.35
	58 61	101	2.8	4.3	5.0	5.8	6.5	7.2	8.1	9.3	10.5	12.2	46.1	8.3	7.4	1.56
SCHENECTADY	57	22	1.9	2.4	2.7	3.3	3.5	3.7	4.5	4.8	5.3	6.3	23.6	4.9	4.1	1.68
	59	24	1.7	2.5	2.9	3.1	3.4	3.7	4.0	4.5	5.6	14.4	76.5	7.9	4.7	2.19
	60	23	.8	1.5	1.7	2.3	2.4	2.6	3.4	3.8	4.5	6.3	9.9	3.5	3.0	1.79
	57 60	69	.8	1.9	2.5	2.8	3.2	3.5	3.8	4.5	5.3	6.3	76.5	5.5	3.9	1.94
SYRACUSE	57	26	3.0	3.8	4.6	5.0	5.3	6.6	7.4	8.8	10.9	12.2	28.3	8.0	6.9	1.66
	59	26	3.0	4.5	5.3	6.1	9.2	10.3	11.1	11.7	12.9	14.4	21.2	9.7	8.6	1.68
	60	25	2.8	3.2	4.5	6.9	7.4	8.2	8.8	9.9	11.3	18.5	20.9	9.0	7.9	1.73
	61	26	3.9	5.7	6.1	7.0	7.7	8.5	9.8	10.7	11.8	14.4	24.3	9.7	8.9	1.50
	57 61	103	2.8	4.0	5.3	6.1	7.1	8.3	9.5	10.6	11.8	15.1	28.3	9.1	8.0	1.65
TROY	59	24	.8	2.4	2.8	3.0	3.4	3.8	4.5	6.3	7.4	8.5	9.6	4.7	4.1	1.74
	60	21	1.6	1.7	3.0	3.5	4.0	4.5	4.8	5.1	5.6	6.3	7.9	4.3	4.0	1.49
	61	23	1.5	2.4	2.7	2.9	3.1	3.8	5.3	5.7	6.1	10.3	12.7	5.0	4.3	1.75
	59 61	68	.8	2.5	2.8	3.0	3.5	4.1	4.8	5.5	6.2	8.1	12.7	4.7	4.2	1.66
UTICA	57	24	2.6	2.7	3.7	4.2	4.8	5.1	5.8	8.1	9.6	12.2	13.9	6.5	5.8	1.65
	59	26	2.2	3.0	3.5	4.5	5.3	7.6	8.2	8.6	12.2	14.4	24.8	8.0	6.7	1.85
	60	25	1.4	2.2	2.8	3.1	3.4	3.8	4.5	6.1	8.1	15.7	17.1	5.7	4.5	1.95
	61	24	1.6	2.0	2.7	3.5	4.5	4.9	5.3	6.1	6.7	10.3	13.8	5.3	4.7	1.73
	57 61	99	1.4	2.5	3.1	3.7	4.4	5.2	5.9	7.5	8.8	12.6	24.8	6.4	5.4	1.82
NORTH CAROLINA																
ASHEVILLE	58	25	3.1	4.8	5.3	6.3	7.0	8.3	9.6	15.1	16.4	23.6	34.8	11.0	9.1	1.86
	60	26	2.7	4.2	4.9	6.3	7.0	9.2	10.3	11.1	12.2	17.0	24.8	9.7	8.4	1.74
	58 60	51	2.7	4.3	5.1	6.1	7.0	8.8	10.0	11.6	15.4	20.0	34.8	10.3	8.7	1.79
CHARLOTTE	57	25	2.3	4.2	4.7	5.1	7.4	10.8	11.7	15.1	16.4	27.9	53.1	13.2	9.7	2.20
	58	25	4.8	5.1	6.3	8.1	8.8	12.2	13.7	16.1	20.0	32.9	65.2	16.3	12.4	2.04
	59	26	2.5	4.5	6.0	7.0	8.8	12.2	13.9	15.7	20.0	30.4	66.1	15.3	11.4	2.15
	60	26	4.2	4.9	5.3	8.1	9.1	10.0	13.3	17.0	21.8	25.8	31.6	13.4	11.0	1.89
	61	26	2.7	3.2	4.9	6.3	7.0	10.3	20.0	23.6	29.6	32.9	95.3	18.2	11.7	2.60
	57 61	128	2.3	4.6	5.2	6.8	8.6	10.9	13.5	16.5	22.4	30.7	95.3	15.3	11.2	2.16

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GREENSBORO	58	22	2.0	3.4	3.8	5.3	6.7	7.4	9.2	9.9	12.2	14.4	28.2	8.9	7.5	1.84
	61	26	2.5	3.4	3.7	4.5	5.5	6.0	6.7	7.4	8.8	10.3	15.4	6.6	6.0	1.59
	58 61	48	2.0	3.4	3.8	4.8	5.7	6.5	7.4	9.0	10.0	12.9	28.2	7.7	6.6	1.72
RALEIGH	59	25	3.0	4.0	4.3	4.8	5.0	5.6	6.3	9.6	12.2	14.4	24.8	7.9	6.7	1.72
	61	24	.3	2.0	3.2	4.5	5.0	5.3	6.3	7.4	10.8	12.2	18.7	6.8	5.3	2.32
	59 61	49	.3	3.0	4.1	4.6	5.0	5.5	6.3	8.3	11.1	13.3	24.8	7.4	6.0	2.03
WINSTON SALEM	57	26	1.2	2.3	3.8	4.8	5.1	5.8	6.7	7.4	13.3	15.7	29.8	8.5	6.5	2.10
	60	25	5.7	6.9	7.9	9.6	11.3	13.7	17.0	19.3	21.2	35.9	59.8	16.9	13.9	1.84
	57 60	51	1.2	3.9	5.1	6.0	7.0	9.6	12.2	14.4	18.5	22.7	59.8	12.6	9.5	2.17
NORTH DAKOTA																
BISMARCK	57	24	1.7	1.6	2.4	2.6	3.4	3.6	3.8	4.3	5.3	6.3	9.0	3.9	3.5	1.58
	58	26	1.6	2.0	2.5	3.0	3.8	4.3	5.0	5.8	7.4	8.3	10.9	4.9	4.3	1.71
	59	25	1.6	1.7	2.5	2.8	3.0	3.1	3.4	4.0	4.3	6.3	6.9	3.6	3.3	1.49
	60	26	.8	2.0	2.5	3.0	3.3	3.6	3.9	4.2	5.3	6.3	8.4	3.9	3.5	1.64
	61	25	1.0	1.8	2.0	2.5	2.7	3.4	3.7	4.8	5.3	7.4	14.3	4.1	3.4	1.79
	57 61	126	.8	1.7	2.4	2.8	3.1	3.5	4.0	4.4	5.6	6.9	14.3	4.1	3.6	1.64
OHIO																
AKRON	58	26	3.1	4.5	6.3	7.4	8.8	10.8	12.2	14.4	21.2	23.6	40.0	13.6	11.0	1.96
	60	24	3.2	3.8	5.1	6.3	7.9	8.8	9.8	12.2	14.4	17.0	20.9	9.9	8.7	1.70
	61	26	2.9	4.0	4.3	5.8	6.6	7.4	8.5	9.3	12.2	15.3	18.5	8.5	7.5	1.67
	58 61	76	2.9	4.1	5.1	6.5	7.4	8.6	10.1	11.9	15.1	19.0	40.0	10.7	9.0	1.81
CANTON	57	26	4.9	7.4	8.3	10.3	11.3	12.9	15.3	17.0	21.8	25.0	31.4	14.5	13.0	1.63
	59	26	6.7	8.1	9.1	10.0	11.3	13.1	14.4	16.1	23.6	25.8	40.0	15.1	13.6	1.57
	61	26	6.3	7.4	8.1	9.2	9.9	11.3	13.3	15.1	17.0	21.2	23.9	12.8	11.9	1.49
	57 61	78	4.9	7.4	8.6	9.6	10.9	12.4	14.2	16.2	20.0	24.7	40.0	14.2	12.8	1.56
CINCINNATI	57	25	2.1	2.7	3.8	5.8	6.6	7.4	8.1	9.6	12.2	17.0	18.8	8.2	6.9	1.87
	58	22	5.3	6.9	7.8	8.8	9.6	10.3	12.2	15.3	18.5	23.6	50.0	14.0	12.1	1.67
	59	26	2.2	5.3	6.0	6.9	7.4	8.8	9.9	12.2	17.0	23.6	47.9	12.2	9.7	1.95
	60	24	5.2	5.3	6.7	7.0	7.4	8.0	8.5	9.8	11.3	17.0	22.4	9.4	8.7	1.45
	61	25	4.1	5.0	5.6	6.5	7.0	7.7	8.2	9.6	12.2	14.4	15.4	8.5	7.9	1.45
	57 61	122	2.1	4.9	6.2	6.9	7.5	8.3	9.2	10.6	14.4	18.0	50.0	10.4	8.9	1.74
CLEVELAND	57	26	3.8	5.8	6.6	7.4	9.6	11.1	12.2	14.4	17.0	19.0	29.1	11.9	10.6	1.65
	58	25	7.7	9.1	9.5	10.0	10.3	12.2	14.8	16.1	17.0	21.8	26.3	13.6	12.9	1.39
	59	25	1.9	6.3	6.9	7.9	8.8	10.8	11.7	13.7	15.7	20.0	49.8	13.0	10.7	1.87
	60	26	2.0	5.3	6.9	7.9	8.8	12.2	13.5	14.4	17.0	20.0	31.8	12.5	10.8	1.82
	61	24	5.0	6.3	7.4	8.1	9.0	9.4	9.9	10.7	11.4	14.4	23.3	10.0	9.5	1.38
	57 61	126	1.9	6.4	7.3	8.7	9.6	10.6	11.9	13.9	16.1	19.3	49.8	12.2	10.8	1.64
COLUMBUS	57	26	4.0	4.5	5.6	7.4	8.8	10.3	11.3	11.9	14.4	17.0	30.7	10.9	9.6	1.69
	58	26	5.0	7.4	8.3	9.3	9.8	10.7	11.8	13.3	16.1	18.5	34.4	12.6	11.4	1.56
	59	24	4.2	4.5	6.0	6.7	7.6	8.1	8.6	11.6	13.3	17.0	36.9	10.3	8.9	1.66
	60	25	4.8	5.3	6.0	7.0	7.7	8.5	9.0	9.8	10.3	14.4	18.9	8.9	8.3	1.42
	61	26	1.7	3.8	4.5	5.3	6.0	6.7	7.4	8.3	10.3	12.2	57.4	9.2	7.0	1.91
	57 61	127	1.7	4.7	5.7	6.8	7.8	8.8	9.9	11.1	13.0	17.0	57.4	10.4	9.0	1.69
DAYTON	58	23	5.0	5.6	6.3	7.7	8.2	9.1	9.7	10.3	12.2	15.7	16.4	9.6	9.1	1.42
	59	25	2.3	3.8	4.5	5.6	6.1	7.4	8.1	9.6	12.2	20.0	35.0	9.2	7.4	1.87
	60	26	3.7	5.3	6.0	6.9	7.4	8.1	8.8	11.3	13.1	14.0	27.7	9.6	8.6	1.59
	61	24	4.5	4.5	6.3	6.6	7.1	7.4	8.1	9.6	11.3	14.4	23.2	9.0	8.2	1.54
	58 61	98	2.3	4.7	5.8	6.5	7.2	8.0	8.7	10.2	12.4	14.9	35.0	9.3	8.3	1.61
HAMILTON	59	26	3.3	5.8	7.4	8.8	9.8	11.3	13.3	15.7	23.6	31.2	37.9	14.7	12.2	1.87
	61	26	1.5	3.2	4.5	6.3	6.6	7.1	7.8	8.5	10.3	12.2	20.0	7.7	6.8	1.72
	59 61	52	1.5	4.2	5.6	6.9	7.6	8.6	10.0	11.6	15.3	23.6	37.9	11.2	9.1	1.91
LORAIN	57	26	3.2	4.3	4.8	5.6	6.1	8.1	9.4	10.0	12.2	18.5	53.3	10.5	8.3	1.87
	60	26	1.7	1.9	2.7	3.0	3.2	5.6	6.7	7.4	9.3	10.3	11.1	5.8	4.9	1.87
	57 60	52	1.7	2.7	3.1	4.7	5.6	6.3	7.8	9.2	10.3	12.2	53.3	8.2	6.4	1.97
SPRINGFIELD	58	24	3.8	4.5	6.3	7.4	8.1	8.6	10.3	11.7	12.9	20.0	27.2	10.7	9.3	1.66
	60	26	2.4	3.4	3.8	5.5	5.8	6.3	7.0	7.4	8.8	10.3	34.9	7.8	6.5	1.73
	58 60	50	2.4	3.7	5.3	5.9	6.6	7.4	8.2	9.3	11.7	14.4	34.9	9.2	7.8	1.74

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TOLEDO	57	26	3.2	3.6	3.9	4.4	4.9	6.0	7.0	7.9	10.3	17.0	25.0	8.2	6.8	1.79
	59	24	2.9	3.5	5.6	6.1	7.4	8.1	8.8	10.6	11.3	12.7	13.6	8.3	7.6	1.54
	57 59	50	2.9	3.6	4.2	5.3	6.0	7.0	8.0	9.3	11.3	13.7	25.0	8.2	7.2	1.67
YOUNGSTOWN	57	26	3.5	4.2	4.8	6.3	8.8	10.3	13.7	15.7	20.0	27.9	49.0	14.6	10.9	2.15
	58	26	3.5	7.4	8.6	9.9	11.3	13.7	15.3	16.1	17.8	19.3	51.3	14.3	12.5	1.60
	59	26	4.6	5.6	6.1	8.1	9.2	10.3	11.7	13.3	17.0	20.0	32.7	12.3	10.8	1.68
	60	26	4.1	5.0	5.6	6.9	7.9	9.1	10.0	10.9	14.4	17.0	61.2	12.7	10.0	1.87
	61	26	4.2	4.3	4.7	5.3	6.3	7.1	8.8	10.3	17.0	21.8	44.2	11.6	8.9	2.00
	57 61	130	3.5	4.7	5.6	7.0	8.8	9.9	11.8	14.6	17.0	23.6	61.2	13.1	10.5	1.88
OKLAHOMA																
OKLAHOMA CITY	58	25	3.3	4.3	4.9	5.8	6.3	7.4	7.7	8.2	8.5	9.6	11.2	6.8	6.5	1.35
	60	23	2.8	4.2	5.0	5.5	5.9	6.7	7.4	8.0	8.5	12.2	15.3	7.2	6.7	1.50
	61	25	1.9	3.6	4.5	5.6	6.3	7.1	7.8	8.8	10.3	13.3	14.5	7.3	6.6	1.62
	58 61	73	1.9	3.9	4.8	5.6	6.1	7.0	[illegible]	8.2	8.7	11.3	15.3	7.1	6.6	1.49
TULSA	57	20	.8	.9	1.7	2.0	2.4	2.5	2.6	2.9	3.2	4.3	6.7	2.7	2.4	1.67
	59	21	.8	1.5	1.6	1.7	2.4	3.4	3.8	4.1	4.4	5.3	13.6	3.5	2.9	1.81
	61	23	.9	.9	2.0	2.5	2.6	3.5	4.2	4.8	5.3	6.3	10.0	3.8	3.2	1.85
	57 61	64	.8	1.4	1.7	2.3	2.5	2.7	3.3	4.0	4.4	5.8	13.6	3.4	2.8	1.79
OREGON																
EUGENE	61	22	3.9	4.9	6.3	8.8	9.6	10.3	14.4	15.7	18.0	20.0	27.8	12.8	11.3	1.71
MEDFORD	61	22	3.6	5.3	7.4	9.6	13.3	17.0	20.0	23.6	38.9	54.1	86.3	23.7	16.6	2.38
PORTLAND	57	26	.8	3.0	3.4	3.8	4.5	6.7	7.2	8.8	11.3	18.5	43.8	8.9	6.2	2.38
	58	25	2.2	3.5	4.5	6.3	7.0	10.9	12.2	14.4	18.5	25.8	58.8	12.8	9.5	2.20
	59	26	1.6	3.2	4.5	5.3	6.0	8.1	10.3	11.6	14.4	20.0	36.1	10.7	8.2	2.11
	60	24	1.5	1.6	2.3	3.2	4.9	5.5	6.7	7.9	8.8	13.3	29.0	6.8	5.2	2.13
	61	26	.8	2.4	2.7	3.5	4.2	5.8	7.4	10.8	12.2	17.0	30.0	8.7	6.1	2.44
	57 61	127	.8	2.6	3.3	4.3	5.6	6.9	8.3	10.8	13.3	19.6	58.8	9.6	6.9	2.29
PENNSYLVANIA																
ALLENTOWN	59	26	2.2	3.2	4.9	6.0	6.7	7.9	9.6	10.8	12.2	17.0	27.1	9.4	7.8	1.86
	61	25	2.9	4.5	5.8	7.8	8.5	9.4	10.0	11.6	13.3	18.5	30.7	10.4	9.0	1.73
	59 61	51	2.2	3.2	5.3	6.3	7.6	8.8	9.9	11.1	12.9	18.0	30.7	9.9	8.4	1.79
BETHLEHEM	61	25	4.4	5.3	6.3	7.6	8.1	8.9	9.6	10.8	11.7	13.7	19.6	9.3	8.7	1.44
ERIE	61	22	2.7	3.3	3.6	4.2	4.9	5.6	6.3	7.0	8.3	9.6	10.5	6.0	5.5	1.51
HARRISBURG	58	25	2.8	3.8	4.7	5.3	6.0	6.9	7.4	14.4	18.0	23.6	34.1	11.0	8.5	2.03
	60	25	2.8	4.5	5.0	5.8	6.3	6.9	7.2	9.3	10.3	13.7	15.6	7.7	7.1	1.55
	58 60	50	2.8	3.8	4.8	5.4	6.2	6.7	7.3	9.9	13.3	18.0	34.1	9.4	7.8	1.80
JOHNSTOWN	59	22	5.8	6.9	7.9	10.3	11.6	13.3	15.3	17.0	27.9	38.9	46.2	17.2	14.3	1.84
	61	22	1.5	5.8	6.9	8.8	9.8	10.9	12.2	15.3	20.0	27.9	36.5	13.6	11.1	2.00
	59 61	44	1.5	6.3	7.7	8.8	10.6	11.9	14.4	16.6	23.6	34.9	46.2	15.4	12.6	1.93
PHILADELPHIA	57	24	4.8	6.3	8.1	8.8	12.8	13.9	14.9	16.5	17.8	20.0	27.7	13.4	12.3	1.56
	58	23	2.1	3.8	6.9	7.4	8.1	9.2	9.9	12.2	13.7	21.8	31.2	11.0	9.3	1.52
	59	25	4.3	5.6	6.1	7.8	8.5	9.6	10.3	15.7	18.0	27.9	29.9	12.4	10.6	1.74
	60	25	4.8	5.8	6.3	8.5	9.1	10.0	10.7	11.8	14.4	23.6	28.7	11.9	10.5	1.62
	61	26	6.7	7.8	8.1	8.6	9.0	9.7	10.3	12.2	15.3	17.0	33.6	12.3	11.1	1.52
	57 61	123	2.1	5.9	7.5	8.2	8.9	9.9	11.3	13.7	16.7	22.2	33.6	12.2	10.7	1.65
PITTSBURGH	57	23	2.1	2.7	5.3	6.3	6.9	7.9	8.8	11.6	12.9	23.6	36.1	10.3	8.3	1.97
	58	26	6.1	8.8	9.6	10.6	11.3	12.2	13.3	14.0	17.0	20.0	21.8	13.0	12.4	1.37
	59	24	4.8	5.3	7.4	10.7	11.8	12.9	14.4	23.6	35.9	54.1	109.6	23.7	16.3	2.32
	60	24	4.1	4.5	6.5	7.0	7.7	8.2	8.8	12.2	15.7	20.0	36.1	11.3	9.7	1.70
	61	26	2.6	4.2	5.3	6.3	6.7	7.2	8.1	8.8	10.3	15.7	45.5	9.7	7.9	1.81
	57 61	123	2.1	5.0	6.4	7.2	8.3	10.1	11.5	13.2	16.3	23.2	109.6	13.6	10.5	1.93
READING	58	25	5.2	6.7	7.4	8.2	8.8	9.9	10.9	12.9	14.4	23.6	49.0	12.4	10.7	1.65
	60	25	1.9	4.9	6.3	6.9	7.2	7.5	8.1	8.6	10.3	20.0	25.8	9.5	8.2	1.73
	58 60	50	1.9	5.3	6.7	7.3	7.8	8.4	9.1	10.8	13.7	20.0	49.0	10.9	9.3	1.71

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SCRANTON	57	26	2.4	3.8	4.5	5.6	6.3	8.3	12.2	15.7	21.8	27.9	30.1	12.3	9.5	2.13
	59	26	2.8	6.7	7.4	8.8	10.3	12.2	17.0	19.0	23.6	35.9	47.7	16.7	13.4	1.98
	61	26	8.6	9.6	12.2	13.9	14.8	16.1	20.0	21.8	27.9	31.2	54.3	19.5	17.4	1.59
	57 61	78	2.4	5.3	7.4	8.6	11.3	14.0	16.2	20.0	23.2	31.2	54.3	16.2	13.0	1.99
WILKES BARRE	58	26	1.6	3.0	3.8	5.3	6.0	6.7	7.4	8.8	11.1	11.8	20.8	7.5	6.5	1.80
	60	25	2.2	3.4	3.8	6.5	7.0	7.9	8.8	10.3	13.3	22.4	34.8	10.0	8.0	1.98
	58 60	51	1.6	3.0	3.8	5.6	6.5	7.2	8.2	9.9	11.6	14.4	34.8	8.8	7.2	1.90
YORK	59	25	4.4	4.9	5.6	6.3	7.4	8.8	9.3	10.0	11.3	20.0	21.6	9.6	8.6	1.58
	61	26	3.4	3.7	4.5	5.1	5.6	6.3	8.3	10.3	13.7	18.5	24.2	9.3	7.7	1.83
	59 61	51	3.4	4.0	4.9	5.6	6.2	7.9	9.0	10.1	12.9	19.0	24.2	9.4	8.1	1.73
PUERTO RICO																
SAN JUAN	57	21	1.6	1.6	2.3	3.2	4.2	4.8	5.1	5.6	6.3	7.0	11.8	4.8	4.2	1.72
	59	24	3.6	3.8	4.9	5.5	6.1	6.9	7.9	9.3	10.3	12.2	37.7	8.7	7.4	1.68
	60	23	1.6	2.7	3.9	4.2	4.5	5.8	7.4	8.0	8.5	12.2	16.3	6.8	5.8	1.77
	61	24	2.9	3.2	4.5	5.4	5.9	6.2	6.6	7.4	8.1	10.3	12.4	6.4	6.0	1.45
	57 61	92	1.6	3.0	3.9	4.6	5.3	5.8	6.4	7.4	8.6	11.1	37.7	6.7	5.8	1.70
RHODE ISLAND																
PROVIDENCE	57	23	3.3	4.7	5.3	6.3	6.9	7.8	8.5	9.6	11.3	17.0	70.0	11.2	8.6	1.86
	58	26	6.5	7.1	8.1	9.8	10.8	12.2	13.9	15.7	20.0	23.6	32.5	14.1	12.7	1.58
	59	26	3.0	4.7	5.0	5.6	6.3	7.0	7.9	8.8	14.4	17.0	42.6	10.3	8.3	1.85
	60	26	4.1	5.6	6.3	7.1	7.9	9.3	11.3	12.9	17.0	20.0	27.9	11.4	10.0	1.65
	61	25	2.3	3.2	4.2	4.9	5.3	6.1	6.7	8.1	9.3	12.2	14.4	6.7	6.0	1.63
	57 61	126	2.3	4.7	5.4	6.4	7.1	8.1	9.6	11.4	14.2	19.4	70.0	10.7	8.9	1.80
SOUTH CAROLINA																
CHARLESTON	59	23	1.8	2.0	3.2	3.8	4.3	6.3	7.4	8.8	10.3	14.4	23.5	7.7	6.0	2.05
	61	26	.8	1.6	2.2	2.9	3.2	3.7	5.3	6.9	8.3	15.7	33.8	6.9	4.5	2.44
	59 61	49	.8	1.9	2.7	3.2	3.7	4.5	6.3	7.7	9.6	15.7	33.8	7.3	5.2	2.27
COLUMBIA	57	24	2.4	3.8	4.8	5.3	6.3	7.4	10.3	17.0	19.0	23.6	35.0	11.6	9.0	2.08
	58	24	2.0	4.5	9.2	9.9	11.3	12.2	14.4	17.0	21.8	35.9	52.9	15.9	12.9	1.98
	60	23	6.9	7.0	8.8	9.4	10.0	10.9	11.6	12.2	14.4	17.0	64.6	13.6	11.6	1.62
	61	24	.9	4.5	5.3	6.3	7.1	7.8	8.5	10.9	11.6	17.0	35.7	9.9	8.1	1.96
	57 61	95	.9	4.8	6.3	7.3	9.0	10.4	11.4	13.3	16.7	23.0	64.6	12.7	10.2	1.95
GREENVILLE	57	26	3.2	4.2	4.7	5.3	7.8	8.8	11.3	14.4	18.5	25.8	29.2	11.5	9.3	1.76
	60	25	4.1	4.5	5.3	7.4	8.3	10.3	15.3	21.8	32.9	38.9	50.9	16.6	12.2	2.23
	57 60	51	3.2	4.2	4.9	6.3	8.0	9.6	12.2	16.5	23.6	32.9	50.9	14.0	10.6	2.11
SOUTH DAKOTA																
SIOUX FALLS	57	26	.5	2.2	2.4	2.7	3.0	3.8	4.3	4.7	5.3	6.0	7.5	3.9	3.4	1.74
	58	25	2.9	3.0	3.2	4.5	4.8	5.3	5.7	6.3	7.4	8.5	12.8	5.6	5.3	1.45
	59	26	1.8	3.4	3.5	3.8	4.1	4.5	5.1	6.3	8.3	10.3	16.9	5.9	5.2	1.65
	60	22	1.7	2.3	2.6	3.2	3.8	4.3	4.8	5.3	6.9	10.3	27.2	5.9	4.7	1.90
	61	26	1.5	2.0	2.4	2.7	3.6	4.0	4.3	4.5	5.1	5.8	10.8	4.1	3.7	1.56
	57 61	125	.5	2.4	2.9	3.5	3.9	4.3	4.8	5.3	6.2	8.3	27.2	5.1	4.4	1.70
TENNESSEE																
CHATTANOOGA	58	24	6.3	8.1	11.3	14.4	18.0	20.0	23.6	26.2	27.9	54.1	82.2	25.5	20.6	1.94
	59	26	6.4	9.6	12.2	13.9	15.3	17.8	20.0	22.4	27.9	32.9	45.0	19.9	17.6	1.66
	60	25	6.2	9.3	10.3	12.2	13.3	15.1	16.4	21.8	25.8	38.9	49.5	18.5	16.1	1.68
	61	26	7.4	8.8	9.8	11.6	14.4	20.0	22.7	24.7	27.9	31.2	67.6	20.8	17.5	1.80
	58 61	101	6.2	8.8	10.5	12.6	14.9	17.7	21.0	24.3	27.6	38.9	82.2	21.1	17.9	1.77
KNOXVILLE	57	26	5.2	5.8	6.6	7.4	8.8	12.6	14.0	15.7	19.0	21.8	33.7	13.5	11.7	1.72
	59	25	3.6	4.9	5.6	7.4	8.8	10.9	11.6	13.3	15.3	23.6	55.0	12.5	10.1	1.87
	61	24	2.9	4.2	5.3	7.4	9.4	10.0	12.2	15.7	20.0	23.6	39.3	13.5	10.7	2.01
	57 61	75	2.9	4.9	6.0	7.4	9.3	11.1	12.7	14.8	17.8	23.0	55.0	13.2	10.8	1.86
MEMPHIS	58	26	4.8	6.7	7.2	7.7	8.0	8.5	9.2	9.9	12.2	18.5	23.0	10.2	9.4	1.49
	60	25	4.8	5.1	5.6	6.3	7.4	7.9	8.2	8.6	9.2	10.3	34.0	8.5	7.7	1.49
	61	25	3.2	4.5	5.3	5.7	6.0	6.7	7.4	9.6	11.3	14.4	32.0	8.6	7.4	1.67
	58 61	76	3.2	5.1	5.8	6.5	7.3	7.9	8.5	9.1	10.3	13.7	34.0	9.1	8.1	1.56

TABLE 2.10—BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NASHVILLE	57	26	3.5	5.3	5.6	6.1	6.9	7.8	8.4	8.8	12.2	14.4	56.0	10.4	8.4	1.77
	58	26	5.1	6.3	7.7	8.5	10.3	12.2	16.1	20.0	35.9	42.4	56.2	19.4	14.8	2.10
	59	26	5.7	6.6	7.1	7.9	8.3	9.6	15.1	16.4	32.9	38.9	72.7	18.2	13.4	2.10
	60	26	4.4	6.9	8.8	9.9	10.6	11.6	13.3	15.1	17.0	23.6	59.3	15.1	12.4	1.81
	61	25	5.2	5.3	6.5	7.0	7.4	9.3	10.3	13.3	14.4	17.0	21.3	10.5	9.6	1.54
	57 61	129	3.5	5.6	6.7	7.7	8.5	10.0	11.8	14.6	17.0	34.4	72.7	14.7	11.5	1.92
TEXAS																
AUSTIN	58	26	2.3	3.0	4.2	4.7	5.0	5.3	6.1	7.7	8.5	11.3	15.7	6.7	6.0	1.62
	61	26	2.4	2.7	3.2	4.2	4.5	4.8	5.1	5.3	6.9	8.1	15.5	5.4	4.9	1.56
	58 61	52	2.3	2.8	3.8	4.5	4.8	5.0	5.3	6.1	8.0	10.9	15.7	6.0	5.4	1.60
BEAUMONT	59	22	1.7	2.0	2.5	3.4	3.7	4.2	4.8	5.3	6.3	8.8	20.7	5.3	4.4	1.79
	61	25	.9	1.7	2.5	3.2	3.8	4.9	5.6	6.3	7.4	11.3	17.0	5.6	4.5	2.01
	59 61	47	.9	1.9	2.5	3.2	3.7	4.5	5.1	5.9	7.0	8.8	20.7	5.4	4.4	1.89
CORPUS CHRISTI	57	26	1.4	1.6	1.7	2.2	2.4	2.6	2.8	3.1	3.8	4.9	7.7	3.0	2.7	1.56
	60	26	1.1	1.7	2.2	2.7	2.8	3.0	3.1	4.2	5.0	5.6	11.0	3.6	3.3	1.61
	61	25	1.5	2.1	2.2	2.4	2.6	2.9	3.2	4.5	4.9	6.3	8.4	3.6	3.2	1.57
	57 61	77	1.1	1.7	2.1	2.4	2.6	2.8	3.0	3.7	4.8	5.5	11.0	3.4	3.0	1.58
DALLAS	57	25	1.7	3.5	4.0	4.5	5.3	6.1	7.4	9.3	10.3	13.3	14.7	7.1	6.2	1.75
	58	22	3.8	4.2	5.3	7.9	8.8	10.3	10.8	11.4	12.2	17.0	25.5	10.3	9.1	1.66
	60	22	1.7	4.5	6.3	7.4	7.8	8.2	8.6	10.3	12.2	14.4	22.4	9.3	8.3	1.70
	61	21	2.4	2.7	4.3	5.3	6.0	6.9	7.4	10.3	14.4	20.0	25.4	9.2	7.5	1.92
	57 61	90	1.7	3.9	4.5	5.7	6.8	7.9	9.0	10.6	11.9	15.3	25.5	8.9	7.6	1.78
EL PASO	57	26	1.7	2.0	3.2	4.0	4.3	5.3	6.7	7.4	11.6	13.3	18.7	7.1	5.7	1.99
	60	26	1.7	2.6	3.4	4.2	4.9	5.7	6.3	6.9	8.8	13.3	24.8	6.9	5.8	1.83
	61	26		2.0	2.9	3.5	3.9	4.4	5.3	6.0	7.0	8.1	32.1	5.9	4.1	2.96
	57 61	78		2.4	3.2	3.8	4.3	5.2	6.0	6.9	8.1	12.8	32.1	6.6	5.1	2.28
FT WORTH	58	26	2.5	3.8	4.2	5.6	6.3	6.9	7.4	8.1	10.3	12.2	25.5	8.0	6.9	1.71
	60	26	2.5	3.4	3.8	5.0	5.5	6.1	6.7	7.2	8.3	10.3	13.3	6.6	6.1	1.54
	61	26	3.4	4.9	5.5	6.0	6.3	7.1	8.1	8.8	11.6	13.3	17.7	8.4	7.7	1.50
	58 61	78	2.5	3.7	4.7	5.5	6.1	6.7	7.3	8.2	9.8	12.2	25.5	7.7	6.8	1.59
GALVESTON	59	23	1.6	1.5	1.6	1.7	2.0	2.5	2.6	3.4	3.8	6.9	10.4	3.3	2.8	1.74
	61	26	1.5	1.5	1.6	2.3	2.4	2.6	3.3	3.5	3.8	5.3	9.4	3.3	2.9	1.69
	59 61	49	1.5	1.5	1.6	1.7	2.4	2.5	2.7	3.5	3.8	6.9	10.4	3.3	2.8	1.70
HOUSTON	57	26	2.0	3.0	3.4	3.8	4.2	5.3	7.4	8.8	10.3	15.7	28.4	8.1	6.2	2.04
	58	25	3.5	4.5	5.3	6.1	6.7	7.6	8.1	8.8	10.9	17.0	28.4	9.1	7.8	1.67
	59	24	.8	3.4	4.5	5.3	6.9	8.8	9.4	10.3	11.6	15.3	16.8	8.4	7.2	1.95
	60	26	1.6	4.0	4.5	5.3	5.8	6.7	8.1	9.6	12.2	15.7	25.1	8.4	7.1	1.82
	61	24	2.3	2.7	3.8	4.3	4.8	5.1	5.8	7.4	8.3	15.7	19.3	6.7	5.7	1.72
	57 61	125	.8	3.4	4.0	4.8	5.6	6.7	7.8	9.2	11.0	15.7	28.4	8.2	6.8	1.85
SAN ANTONIO	57	26	1.6	2.1	2.2	2.5	2.9	4.0	4.7	5.1	7.0	7.8	7.9	4.4	3.9	1.65
	58	23	2.6	4.0	4.6	4.9	5.2	5.8	6.3	7.0	8.8	14.4	27.1	7.4	6.4	1.66
	59	22	1.5	2.3	3.8	5.1	5.5	5.9	6.3	7.4	9.3	10.3	18.6	6.9	6.0	1.77
	60	23	3.8	4.9	5.8	6.3	6.7	7.2	7.8	8.5	9.2	10.3	29.7	8.4	7.5	1.54
	61	24	1.4	2.0	3.0	3.2	4.1	4.4	4.8	5.6	6.3	8.8	49.4	6.5	4.7	1.95
	57 61	118	1.4	2.4	3.4	4.4	4.9	5.5	6.2	7.1	8.1	9.8	49.4	6.6	5.5	1.80
TEXAS CITY	59	23		1.8	2.1	2.2	2.8	3.1	3.4	3.8	4.5	5.8	6.6	3.4	2.7	2.61
	61	23	.7	.9	1.6	2.3	2.8	3.2	3.8	4.3	5.3	8.8	15.0	4.2	3.2	2.17
	59 61	46		1.4	1.9	2.2	2.8	3.1	3.6	4.1	5.0	6.3	15.0	3.8	2.9	2.37
WACO	58	25	2.7	3.5	3.8	4.2	4.5	5.4	6.3	7.1	7.9	11.3	13.4	6.2	5.7	1.51
	60	25	2.2	2.2	2.7	3.0	3.2	3.5	3.6	4.2	4.8	8.1	9.1	4.0	3.7	1.49
	61	26	1.3	2.3	2.8	2.9	3.0	3.2	3.7	4.2	5.3	7.4	19.9	4.5	3.8	1.72
	58 61	76	1.3	2.4	2.9	3.2	3.4	3.8	4.3	5.2	6.7	8.3	19.9	4.9	4.3	1.64
UTAH																
SALT LAKE CITY	57	22	3.9	4.3	4.9	6.0	6.6	7.1	7.7	8.2	10.3	17.0	26.2	8.5	7.5	1.61
	58	24	3.9	4.5	5.3	5.8	6.9	7.8	8.5	10.3	12.2	20.0	24.3	9.6	8.4	1.68
	59	26	4.0	5.3	5.8	7.4	7.9	8.6	10.9	12.2	18.5	23.6	54.5	13.4	10.4	1.96
	60	25	5.0	5.6	6.1	7.0	8.8	10.3	11.3	13.3	15.7	23.6	32.0	12.1	10.4	1.72
	61	22	3.7	4.5	6.3	7.7	8.2	8.8	11.3	14.4	23.6	27.9	46.8	13.9	10.8	2.02
	57 61	119	3.7	4.8	5.7	6.5	7.5	8.3	9.6	11.6	15.9	23.6	54.5	11.5	9.4	1.82

TABLE 2.10 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
VERMONT																
BURLINGTON	57	26	.8	1.4	1.6	2.1	2.3	2.5	2.6	2.9	3.3	3.6	4.5	2.5	2.3	1.53
	58	26	1.6	2.3	2.4	2.6	2.8	3.2	3.8	4.2	5.3	6.3	10.2	3.9	3.5	1.56
	59	26	.8	1.4	1.6	1.7	2.6	3.4	3.8	4.3	5.0	6.3	9.6	3.6	3.0	1.89
	60	25	.9	1.9	2.4	2.6	3.0	3.4	3.6	4.0	4.3	5.8	8.2	3.5	3.1	1.66
	61	24	.7	.9	1.6	1.7	2.4	2.6	2.9	3.8	5.3	6.1	6.8	3.1	2.7	1.83
	57 61	127	.7	1.5	1.7	2.4	2.6	2.9	3.3	3.7	4.4	5.7	10.2	3.3	2.9	1.72
VIRGINIA																
DANVILLE	60	25	2.3	2.3	3.5	4.3	5.6	6.6	7.1	8.8	12.9	15.7	41.2	8.7	6.6	2.04
HAMPTON	58	25	1.0	2.5	3.2	4.0	4.2	4.5	5.3	5.9	6.3	9.6	12.4	5.2	4.6	1.71
	60	26	2.5	2.5	2.7	5.4	5.7	6.2	7.0	8.1	9.8	13.3	22.3	7.4	6.2	1.83
	61	26	.8	1.6	2.0	2.4	2.6	3.2	4.0	4.5	6.3	8.1	9.4	4.1	3.3	1.94
	58 61	77	.8	2.2	2.5	3.2	4.0	4.7	5.6	6.2	7.9	9.6	22.3	5.6	4.6	1.91
NORFOLK	57	25	3.3	3.8	5.4	5.9	6.2	7.4	8.8	10.9	12.2	15.7	16.3	8.6	7.7	1.60
	58	25	2.4	4.5	5.3	7.4	8.3	10.7	11.4	17.0	21.8	27.9	36.5	13.0	10.2	2.06
	59	26	3.8	4.3	5.6	6.6	7.1	7.7	8.2	8.5	12.2	15.3	35.0	9.2	8.0	1.63
	60	26	2.3	4.5	4.9	5.5	5.8	6.3	7.9	8.8	12.2	14.4	43.0	9.1	7.3	1.85
	61	25	2.9	3.2	3.8	5.3	5.8	6.7	7.4	8.5	10.8	12.2	25.3	7.6	6.6	1.70
	57 61	127	2.3	3.9	5.0	5.8	6.4	7.5	8.3	10.7	12.2	16.3	43.0	9.5	7.9	1.79
PORTSMOUTH	61	24	3.3	3.8	5.8	6.6	7.4	8.0	8.5	10.9	12.2	17.0	30.5	10.0	8.7	1.70
RICHMOND	57	26	2.5	3.5	4.0	4.8	5.3	7.4	8.8	10.9	12.8	13.9	19.8	8.3	7.1	1.76
	59	26	3.0	4.2	4.5	6.0	6.5	7.2	8.8	12.2	15.7	27.9	38.3	11.5	8.8	2.03
	61	24	2.1	2.3	3.2	3.6	4.5	6.3	10.3	12.2	14.4	22.7	24.3	9.6	7.0	2.28
	57 61	76	2.1	3.2	4.0	4.7	5.8	7.2	9.6	11.7	13.9	20.9	38.3	9.8	7.6	2.02
ROANOKE	59	23	3.2	5.3	6.9	7.7	8.2	11.3	12.9	14.4	16.1	32.9	46.8	14.5	11.4	1.96
WASHINGTON																
SEATTLE	57	25	1.6	3.2	4.5	6.6	7.1	8.8	10.3	13.7	15.3	20.0	23.2	9.9	8.2	1.97
	59	26	1.9	2.3	2.6	3.0	3.8	5.0	6.3	7.4	8.8	12.2	17.4	6.2	5.1	1.91
	60	26	1.8	2.4	2.6	3.8	4.3	5.0	5.8	6.3	7.4	10.3	16.5	5.8	4.9	1.78
	61	25	2.3	3.2	4.3	4.9	5.3	6.3	8.0	8.8	13.3	17.0	64.4	10.3	7.3	2.10
	57 61	102	1.6	2.5	3.1	4.3	5.1	6.0	7.2	8.4	11.8	15.5	64.4	8.0	6.2	1.99
SPOKANE	60	26	2.8	3.2	4.5	6.3	7.4	11.3	14.4	16.1	20.0	23.6	38.8	12.9	10.0	2.15
	61	25	1.7	2.7	3.8	4.3	4.8	5.8	6.9	8.8	10.9	17.0	27.3	7.9	6.3	1.97
	60 61	51	1.7	3.0	3.9	4.7	5.6	7.4	10.3	12.2	16.4	22.4	38.8	10.5	8.0	2.13
TACOMA	58	24	2.6	4.0	5.3	7.4	8.8	11.3	14.4	23.6	30.4	38.9	48.1	17.4	12.4	2.38
	60	23	2.7	4.7	5.3	6.6	7.1	8.8	12.2	20.0	25.8	32.9	62.6	16.3	11.3	2.33
	58 60	47	2.6	4.5	5.1	6.7	8.0	10.3	14.4	21.8	29.2	35.9	62.6	16.9	11.9	2.34
WEST VIRGINIA																
CHARLESTON	57	23	2.4	2.5	3.8	4.3	4.9	6.0	7.4	10.3	12.2	18.5	22.7	8.2	6.5	1.99
	58	23	3.8	4.2	5.6	6.1	6.7	8.8	9.4	10.0	12.2	23.6	30.8	10.4	8.6	1.81
	59	24	1.5	2.0	4.2	5.6	7.9	8.8	11.6	13.3	14.4	18.5	25.5	10.1	8.2	2.08
	60	25	3.4	4.3	4.8	5.5	5.8	6.3	7.4	9.6	11.3	21.8	41.3	9.7	7.8	1.85
	61	26	3.3	5.0	5.6	6.3	7.4	8.5	9.8	10.9	17.0	20.0	37.2	11.6	9.5	1.85
	57 61	121	1.5	3.8	4.7	5.6	6.2	7.7	9.3	11.0	14.0	19.6	41.3	10.0	8.1	1.92
HUNTINGTON	60	24	4.0	4.5	6.9	7.4	10.3	12.6	13.3	14.4	19.0	25.0	26.1	13.1	11.4	1.73
WHEELING	57	25	4.5	7.9	8.8	9.6	10.0	13.3	17.0	20.9	22.7	38.9	43.7	16.9	14.3	1.79
	59	23	5.2	5.8	7.9	8.8	9.8	11.3	12.2	17.0	21.8	42.4	48.1	16.6	13.0	1.97
	57 59	48	4.5	6.9	8.3	9.1	10.0	11.4	14.4	20.0	22.4	38.9	48.1	16.7	13.7	1.87
WISCONSIN																
MADISON	59	26	3.2	3.6	4.0	4.7	5.1	5.6	6.1	7.4	8.5	9.2	10.1	6.1	5.8	1.40
	61	26	2.3	3.2	3.8	4.2	4.5	5.3	6.3	6.9	8.1	9.6	20.1	6.6	5.7	1.67
	59 61	52	2.3	3.3	3.9	4.4	5.0	5.5	6.1	7.0	8.3	9.6	20.1	6.3	5.7	1.54

TABLE 2.10—BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MILWAUKEE	57	25	.9	4.0	4.5	5.3	5.8	6.9	7.9	9.6	11.3	13.7	17.0	7.6	6.6	1.83
	58	26	3.2	4.5	5.0	5.6	6.0	6.7	7.9	8.8	11.6	13.3	21.1	8.2	7.4	1.59
	59	25	3.5	4.2	5.[illegible]	6.3	7.7	8.5	9.3	11.3	12.9	15.3	17.0	9.0	8.2	1.57
	60	24	4.5	5.3	6.3	7.0	8.3	10.3	11.3	12.6	13.5	15.7	21.1	10.2	9.4	1.52
	61	23	3.6	3.8	6.3	6.7	7.0	8.8	9.4	10.0	11.3	13.7	16.7	8.8	8.2	1.48
	57 61	123	.9	4.2	5.4	6.0	6.8	7.9	9.0	10.6	12.3	14.1	21.1	8.7	7.9	1.62
RACINE	57	23	1.5	2.7	3.8	4.5	5.8	6.7	7.0	7.4	8.3	9.8	21.2	6.7	5.9	1.73
	60	23	3.0	4.5	6.3	7.0	7.9	9.2	9.9	11.3	14.4	20.0	23.0	10.4	9.1	1.72
	57 60	46	1.5	3.5	4.5	6.0	6.7	7.3	8.3	9.2	10.3	17.0	23.0	8.6	7.3	1.79
WYOMING														
CHEYENNE	57	26	.8	1.7	2.4	2.8	3.1	3.5	4.0	4.5	6.0	8.8	9.6	4.2	3.5	1.87
	58	24	1.0	1.7	3.3	3.6	3.9	4.2	4.4	5.0	5.6	8.8	12.6	4.8	4.3	1.68
	59	26	1.7	2.0	2.4	2.6	3.3	3.4	3.6	3.7	4.3	5.3	11.4	3.8	3.4	1.53
	60	23	.8	1.5	1.6	1.9	2.4	3.3	3.6	3.8	4.3	5.8	6.7	3.2	2.8	1.68
	61	25	.7	.8	1.4	1.6	1.7	2.5	2.9	3.4	3.8	4.3	7.1	2.6	2.2	1.83
	57 61	124	.7	1.5	1.9	2.5	3.1	3.4	3.7	4.1	4.6	6.2	12.6	3.7	3.2	1.79

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter: Min	Frequency Distribution—Percent: 10	20	30	40	50	60	70	80	90	Max	Arith Mean	Geo Mean	Std Geo Dev
ALABAMA																
BIRMINGHAM	WINTER	30	5.6	6.9	8.1	9.8	11.1	12.2	14.9	16.5	27.9	63.9	119.0	23.0	15.6	2.23
	SPRING	32	.9	3.2	5.0	6.9	7.6	8.2	8.8	12.2	17.0	23.6	51.0	11.6	8.7	2.20
	SUMMER	28	2.7	3.0	3.6	4.5	5.6	6.5	7.2	9.4	10.0	11.6	15.8	7.1	6.3	1.67
	AUTUMN	32	1.8	2.7	3.8	6.3	7.4	9.4	10.3	18.5	22.7	38.9	63.3	15.3	10.1	2.56
	57 61	122	.9	3.4	5.2	6.6	7.5	9.1	10.6	12.6	17.8	31.2	119.0	14.3	9.7	2.31
MOBILE	WINTER	12	2.6	2.7	3.8	5.8	6.3	25.8	27.9	50.0	59.0	63.9	99.3	32.2	17.2	3.72
	SPRING	13	.5	.5	5.3	7.4	8.8	10.3	15.7	17.0	23.6	38.9	46.0	16.6	10.4	3.31
	SUMMER	12	4.2	4.5	6.3	8.8	9.6	10.3	13.3	14.4	23.6	38.9	92.5	19.7	13.2	2.32
	AUTUMN	13	6.0	6.3	8.8	14.4	21.8	30.4	32.9	38.9	54.1	88.9	123.9	37.0	25.3	2.57
	58 60	50	.5	4.3	6.1	8.1	9.9	15.3	22.7	32.9	48.0	60.6	123.9	26.4	15.6	3.03
MONTGOMERY	WINTER	13	5.6	5.8	8.1	8.8	10.3	12.2	13.3	14.4	15.7	32.9	42.6	14.5	12.2	1.79
	SPRING	12	3.4	3.8	5.3	7.9	8.3	8.8	11.3	12.2	17.0	20.0	33.2	11.7	9.8	1.85
	SUMMER	13	5.3	5.3	6.0	6.3	6.9	7.8	8.1	8.5	8.8	9.8	10.1	7.5	7.3	1.24
	AUTUMN	13	5.6	5.8	7.4	7.9	8.3	10.3	10.9	11.6	12.2	15.7	16.7	10.3	9.8	1.41
	59 61	51	3.4	5.6	6.2	7.5	8.1	8.8	10.3	11.7	13.9	16.5	42.6	11.0	9.6	1.63
ALASKA																
ANCHORAGE	WINTER	29	1.7	2.5	3.2	3.8	4.3	5.3	6.9	10.3	13.7	16.1	31.2	8.2	6.2	2.10
	SPRING	33	1.6	2.4	3.8	4.2	4.7	5.3	6.1	7.4	10.3	13.3	15.3	6.5	5.5	1.81
	SUMMER	34	.9	2.4	2.7	3.5	3.8	4.2	4.7	5.3	7.4	8.5	13.2	5.1	4.4	1.73
	AUTUMN	32	.8	2.3	2.6	3.4	3.8	4.5	6.0	7.7	8.8	10.3	13.9	5.8	4.8	1.93
	57 61	128	.8	2.4	3.1	3.6	4.1	4.7	5.7	7.5	8.8	12.9	31.2	6.3	5.2	1.90
ARIZONA																
PHOENIX	WINTER	31	6.6	14.4	21.8	25.0	27.2	30.4	32.9	38.9	42.4	45.9	58.7	30.9	28.0	1.62
	SPRING	33	3.9	5.3	7.6	8.1	8.6	9.9	11.6	13.3	17.0	25.0	30.9	12.4	10.8	1.70
	SUMMER	29	3.5	3.8	5.4	5.9	6.3	7.4	7.9	8.6	10.3	12.2	17.9	8.0	7.4	1.51
	AUTUMN	32	4.7	7.4	8.8	11.7	15.4	17.0	18.5	20.0	29.2	32.9	42.8	18.5	16.1	1.73
	57 61	125	3.5	5.7	7.4	8.5	10.5	13.3	17.4	23.6	28.4	37.4	58.7	17.5	13.9	2.00
TUCSON	WINTER	11	4.3	4.5	5.3	6.9	7.4	8.8	10.3	12.2	17.0	20.0	24.6	10.6	9.3	1.69
	SPRING	14	2.5	2.5	3.3	3.4	3.7	3.8	4.5	5.6	6.0	7.4	9.4	4.6	4.3	1.47
	SUMMER	13	.8	.9	2.0	2.4	2.6	3.4	3.5	3.7	3.8	6.3	7.3	3.3	2.9	1.75
	AUTUMN	10	.9	.9	2.0	3.5	3.8	4.5	5.3	6.9	7.4	10.3	12.5	5.5	4.4	2.20
	60 61	48	.8	2.0	2.7	3.4	3.7	4.3	5.6	6.7	7.4	10.3	24.6	5.8	4.6	2.00
ARKANSAS																
LITTLE ROCK	WINTER	32	2.4	3.8	4.5	5.0	5.6	6.7	8.1	9.6	13.3	22.4	31.4	9.5	7.6	1.92
	SPRING	33	.8	2.0	3.0	3.8	4.3	5.0	5.6	6.7	8.1	11.6	15.0	5.8	4.9	1.88
	SUMMER	32	2.3	2.7	3.1	4.0	4.5	4.8	5.2	5.8	7.0	8.8	9.4	5.2	4.8	1.50
	AUTUMN	32	2.3	2.7	3.2	6.0	6.7	7.4	8.2	9.6	13.3	18.0	32.5	9.1	7.4	1.92
	57 61	129	.8	2.8	3.5	4.4	5.0	5.8	6.7	7.9	9.7	13.5	32.5	7.4	6.0	1.87
CALIFORNIA																
BERKELEY	WINTER	11	4.1	4.2	4.5	5.8	6.3	8.8	10.3	20.0	21.8	23.6	29.4	12.5	9.9	2.03
	SPRING	13	1.6	1.5	1.6	1.7	3.8	5.6	6.0	6.3	6.9	8.8	13.7	5.2	4.2	2.04
	SUMMER	13	1.7	1.7	3.5	3.8	4.0	4.5	5.3	5.6	6.0	10.3	12.0	5.3	4.7	1.64
	AUTUMN	14	2.5	2.7	3.5	3.8	5.3	6.9	7.4	10.3	14.4	32.9	35.8	11.1	7.7	2.37
	59 61	51	1.6	1.7	3.4	4.1	4.9	5.8	6.5	7.9	10.3	21.8	35.8	8.4	6.1	2.16
BURBANK	WINTER	11	4.2	4.5	9.6	10.3	17.0	30.4	32.9	54.1	59.0	63.9	83.5	33.0	23.5	2.55
	SPRING	14	5.0	5.3	8.8	10.3	17.0	20.9	21.8	23.6	27.9	38.9	51.7	20.7	17.0	2.00
	SUMMER	13	4.6	5.3	7.4	11.3	12.2	15.3	16.1	17.0	20.0	27.9	29.7	15.3	13.3	1.79
	AUTUMN	13	8.9	9.3	10.3	17.0	20.0	27.9	30.4	32.9	35.9	50.0	46.7	25.9	22.4	1.80
	57 60	51	4.2	6.3	9.6	12.2	15.7	20.0	23.6	28.7	32.9	50.0	83.5	23.3	18.4	2.05
FRESNO	WINTER	11	1.9	2.0	4.5	8.1	8.8	17.0	20.0	23.6	38.9	45.9	58.4	20.5	14.0	2.74
	SPRING	14	2.3	2.3	3.8	4.2	5.6	5.8	6.1	7.4	8.8	12.2	13.8	6.5	5.8	1.68
	SUMMER	13	1.8	2.0	4.9	5.1	5.3	6.7	7.0	7.4	8.1	9.6	10.1	6.5	6.0	1.54
	AUTUMN	11	3.9	4.5	5.3	6.9	7.4	12.2	13.3	14.4	23.6	27.9	31.1	13.3	10.9	1.95
	58 60	49	1.8	3.8	4.7	5.5	6.5	7.4	8.5	10.3	14.4	23.6	58.4	11.2	8.2	2.12
GLENDALE	WINTER	11	6.6	7.4	14.4	17.0	18.5	21.8	23.6	27.9	30.4	32.9	37.0	22.3	20.4	1.62
	SPRING	13	4.0	4.2	5.3	6.9	7.4	9.6	10.3	12.2	14.4	23.6	28.5	11.1	9.2	1.85
	SUMMER	11	3.1	3.2	8.8	12.2	12.9	14.4	17.0	21.2	22.4	23.6	23.7	15.4	13.6	1.80
	AUTUMN	13	5.5	5.8	7.4	11.3	12.2	27.9	30.4	32.9	35.9	45.9	99.2	26.8	19.1	2.38
	59 61	48	3.1	5.8	7.4	10.3	12.6	15.1	20.0	23.0	27.9	32.9	99.2	18.9	14.7	2.05

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
LONG BEACH	WINTER	11	7.0	7.4	18.5	20.0	21.8	27.9	32.9	45.9	50.0	54.1	80.4	33.2	27.7	1.93
	SPRING	14	2.9	3.2	4.9	5.3	5.8	6.1	6.3	10.3	12.2	30.4	31.8	10.5	7.9	2.08
	SUMMER	14	3.2	3.2	4.5	5.8	7.9	8.3	8.8	9.8	10.3	11.6	11.9	8.0	7.4	1.53
	AUTUMN	12	6.8	7.4	13.3	15.3	16.1	17.0	23.6	25.0	27.9	32.9	42.6	21.0	19.0	1.63
	58 61	51	2.9	4.5	5.8	7.4	9.4	11.7	15.7	21.2	26.8	32.9	80.4	17.2	12.5	2.23
LOS ANGELES	WINTER	28	3.0	10.3	18.0	20.0	23.6	29.2	32.9	41.7	44.5	51.4	61.9	30.5	25.6	1.97
	SPRING	35	3.9	7.1	9.3	12.2	14.4	16.5	20.0	23.6	26.8	32.9	56.1	18.6	15.7	1.83
	SUMMER	28	3.6	7.4	10.3	11.6	12.8	13.8	15.7	19.0	21.2	25.8	32.5	15.5	13.8	1.68
	AUTUMN	28	7.2	11.3	15.3	17.0	23.6	26.8	31.2	35.3	37.7	54.1	69.4	29.7	25.6	1.78
	57 61	119	3.0	8.3	11.4	13.7	16.5	20.6	23.6	27.9	32.9	44.7	69.4	23.3	19.2	1.92
OAKLAND	WINTER	18	6.3	6.9	8.1	8.8	10.9	12.2	14.4	23.6	25.8	50.0	60.3	19.5	15.0	2.03
	SPRING	19	2.4	4.8	5.3	5.8	6.3	7.4	7.9	8.8	10.3	11.6	12.7	7.6	7.1	1.50
	SUMMER	18	2.8	4.0	4.5	5.6	6.3	7.4	8.8	9.6	9.9	11.3	14.3	7.8	7.2	1.52
	AUTUMN	19	5.4	6.9	9.1	9.7	10.3	14.4	15.3	17.0	20.0	22.4	36.0	14.7	13.1	1.62
	58 61	74	2.4	5.0	6.1	7.0	8.4	9.4	10.3	12.2	15.1	22.7	60.3	12.3	10.0	1.84
PASADENA	WINTER	13	4.6	5.3	10.3	12.2	17.0	24.7	25.8	26.8	27.9	32.9	36.8	20.9	18.0	1.86
	SPRING	14	6.1	6.3	7.0	7.4	9.6	10.3	12.2	18.5	20.0	25.8	26.0	13.6	11.9	1.70
	SUMMER	10	7.9	8.1	8.8	11.3	12.2	14.4	15.7	17.0	20.0	21.8	22.3	14.5	13.7	1.43
	AUTUMN	12	11.1	11.3	12.2	15.3	16.1	17.0	20.0	21.2	23.6	32.9	38.7	19.8	18.6	1.45
	57 60	49	4.6	7.4	9.6	11.3	14.4	16.3	18.2	21.2	24.3	27.9	38.7	17.2	15.3	1.67
RICHMOND	WINTER	12	2.7	2.7	3.8	6.6	6.9	7.1	7.4	8.8	10.3	27.9	32.1	10.3	8.0	2.03
	SPRING	10	1.8	1.9	2.0	2.4	2.6	2.7	3.2	5.3	6.3	7.4	8.4	4.1	3.6	1.73
	SUMMER	14	.8	.8	.9	.9	2.7	3.4	3.6	4.8	5.0	6.3	7.9	3.4	2.6	2.19
	AUTUMN	12	2.7	2.7	3.8	4.5	5.3	6.3	6.7	7.0	8.8	11.3	11.4	6.4	5.8	1.56
	58 60	48	.8	1.9	2.5	3.2	3.8	5.0	6.1	6.9	7.4	9.6	32.1	6.0	4.5	2.15
SACRAMENTO	WINTER	13	3.0	3.2	6.3	7.4	8.1	10.3	17.0	20.0	25.8	38.9	71.3	18.4	12.5	2.44
	SPRING	12	2.2	2.3	3.0	3.5	3.8	4.5	6.3	7.4	8.8	12.2	13.4	6.0	5.2	1.73
	SUMMER	12	2.5	2.7	2.9	3.2	3.4	3.6	3.8	4.5	5.3	11.3	11.6	4.9	4.3	1.65
	AUTUMN	14	3.5	3.5	5.8	6.3	7.4	9.6	10.3	29.6	31.2	45.9	48.2	18.3	12.4	2.57
	58 60	51	2.2	3.0	3.4	3.8	5.5	6.9	8.5	10.9	20.0	31.2	71.3	12.3	7.9	2.43
SAN BERNARDINO	WINTER	18	3.2	4.5	7.4	8.1	11.3	15.3	17.0	23.6	25.0	27.9	34.0	16.3	13.3	2.04
	SPRING	17	3.0	3.8	4.2	4.9	5.8	8.1	8.8	9.8	12.2	14.4	17.3	8.1	7.1	1.68
	SUMMER	18	1.7	5.3	7.4	9.6	10.9	12.2	13.7	15.1	15.7	17.0	19.1	12.1	10.7	1.81
	AUTUMN	16	4.2	6.3	14.4	16.1	17.0	21.2	23.6	25.8	32.9	42.4	79.0	25.3	20.2	2.06
	57 61	69	1.7	4.3	5.8	8.5	10.6	13.1	15.1	16.8	20.9	27.0	79.0	15.3	11.9	2.07
SAN DIEGO	WINTER	29	4.3	8.1	12.6	13.7	15.1	17.0	19.0	23.6	27.9	35.9	46.4	20.1	17.4	1.76
	SPRING	30	2.8	3.0	3.2	4.0	4.5	5.1	6.3	7.4	9.9	12.9	20.4	6.8	5.8	1.73
	SUMMER	33	2.3	2.5	3.2	3.6	4.0	4.8	5.6	6.3	7.1	8.2	20.0	5.4	4.8	1.61
	AUTUMN	32	1.5	3.8	4.2	4.8	5.3	9.3	11.3	14.4	20.0	24.7	25.1	11.1	8.6	2.15
	57 61	124	1.5	3.0	3.9	4.5	5.4	7.1	9.2	13.0	16.3	24.2	46.4	10.7	7.9	2.15
SAN FRANCISCO	WINTER	32	4.5	5.3	6.3	10.3	12.2	14.9	16.5	20.0	28.9	31.9	49.3	16.9	13.8	1.94
	SPRING	33	2.3	2.8	3.3	3.7	4.0	4.5	5.3	6.7	8.1	12.2	18.2	6.2	5.3	1.74
	SUMMER	33	1.3	2.1	2.4	2.7	3.0	3.4	3.7	4.2	4.9	7.4	10.6	4.1	3.6	1.64
	AUTUMN	30	2.4	2.7	4.0	4.5	5.6	6.9	8.1	9.6	13.3	17.0	57.2	9.7	7.3	2.03
	57 61	128	1.3	2.6	3.3	3.8	4.5	5.6	7.2	9.9	13.5	19.3	57.2	9.2	6.6	2.19
SAN JOSE	WINTER	19	1.9	3.2	5.3	7.0	9.6	11.3	12.2	17.0	27.9	54.1	118.1	22.2	12.6	2.91
	SPRING	19	1.7	2.7	3.8	4.7	5.1	5.6	6.0	6.6	7.1	9.6	10.7	5.8	5.3	1.60
	SUMMER	19	2.5	2.5	2.7	3.6	4.0	4.5	4.8	5.3	6.0	7.4	11.3	5.0	4.6	1.54
	AUTUMN	20	2.8	3.8	5.3	6.5	7.0	7.4	9.6	12.2	18.5	23.6	35.6	11.5	9.1	1.99
	57 61	77	1.7	2.9	3.8	4.7	5.4	6.5	7.1	9.4	11.8	21.8	118.1	11.1	7.3	2.24
STOCKTON	WINTER	6	4.1	4.5	4.5	5.3	5.3	8.1	8.8	8.8	20.0	20.0	42.7	14.3	9.9	2.43
	SPRING	7	5.7	5.6	5.6	6.0	6.3	7.4	7.4	8.8	10.3	10.3	11.4	7.6	7.3	1.30
	SUMMER	6	5.0	5.3	5.3	6.3	6.3	8.1	8.8	8.8	11.3	11.3	11.3	8.2	7.8	1.36
	AUTUMN	7	6.8	6.9	6.9	7.4	8.8	14.4	14.4	20.0	27.9	27.9	41.8	17.5	14.3	1.97
	58 58	26	4.1	5.3	5.8	6.7	7.4	8.1	8.8	10.9	14.4	20.0	42.7	11.9	9.6	1.85
COLORADO																
DENVER	WINTER	32	4.7	6.3	12.2	15.0	15.8	16.7	23.6	25.2	27.4	36.9	58.4	20.9	17.9	1.81
	SPRING	32	2.6	3.2	5.3	6.1	6.7	7.4	8.5	9.4	11.3	13.7	25.2	8.5	7.5	1.66
	SUMMER	28	4.6	5.6	6.3	6.9	7.5	8.0	8.4	8.8	9.6	10.8	11.6	8.0	7.8	1.27
	AUTUMN	31	4.5	5.3	6.1	7.4	8.1	9.3	10.9	13.3	15.7	25.8	35.4	12.1	10.3	1.73
	57 61	123	2.6	5.3	6.2	7.2	8.1	9.0	10.7	13.5	16.2	25.9	58.4	12.5	10.3	1.83

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
CONNECTICUT																
BRIDGEPORT	WINTER	7	3.2	3.2	3.2	7.4	8.8	12.2	12.2	14.4	17.0	17.0	23.2	12.0	10.3	1.90
	SPRING	11	5.8	5.8	6.3	6.6	6.9	7.4	8.1	8.8	10.3	12.2	13.2	8.1	7.8	1.31
	SUMMER	14	4.5	4.5	6.3	7.4	8.1	8.5	8.8	11.3	12.2	14.4	30.5	10.4	9.2	1.63
	AUTUMN	13	1.6	1.7	6.3	7.4	8.8	10.3	12.2	14.4	17.0	20.0	38.1	12.6	9.6	2.30
	58 60	45	1.6	5.3	6.3	7.1	7.8	8.6	9.9	11.8	13.5	18.5	38.1	10.7	9.1	1.79
HARTFORD	WINTER	33	2.6	4.2	5.5	6.0	6.6	9.3	10.7	11.8	14.4	21.2	24.5	10.5	8.9	1.79
	SPRING	33	3.4	3.7	5.0	5.6	6.0	6.7	7.4	8.2	9.6	11.7	44.0	8.3	7.1	1.64
	SUMMER	27	2.6	3.4	3.8	4.9	5.3	5.9	6.3	7.0	8.8	9.8	11.1	6.2	5.8	1.47
	AUTUMN	33	2.6	4.0	5.8	6.9	7.9	9.8	11.1	12.2	14.4	20.0	44.0	11.5	9.3	1.90
	57 61	126	2.6	3.9	4.9	5.7	6.3	7.0	8.5	10.2	11.7	16.0	44.0	9.2	7.7	1.76
NEW BRITAIN	WINTER	11	3.2	3.2	5.3	6.3	6.7	7.4	9.3	9.8	10.3	23.6	36.6	11.1	8.7	1.96
	SPRING	13	3.2	3.2	6.3	7.8	8.1	8.8	9.6	10.3	12.2	14.4	25.9	10.0	8.8	1.70
	SUMMER	13	4.7	5.3	7.7	8.0	8.2	8.8	9.3	9.8	10.3	14.4	15.9	9.4	9.0	1.36
	AUTUMN	10	2.6	2.7	4.9	5.3	6.3	10.3	12.2	14.4	18.5	20.0	85.6	17.6	10.6	2.62
	59 61	47	2.6	4.7	5.6	7.1	8.0	8.8	9.5	10.3	13.5	18.5	85.6	11.7	9.2	1.86
NEW HAVEN	WINTER	28	3.6	4.2	5.8	6.3	8.1	9.6	10.6	11.6	12.2	18.0	33.5	10.4	9.0	1.70
	SPRING	30	2.7	3.8	4.8	5.3	6.1	6.9	7.7	8.5	9.8	12.2	27.6	8.1	7.1	1.65
	SUMMER	34	3.9	4.3	5.3	5.7	6.2	7.0	7.8	8.6	9.8	12.2	16.2	7.7	7.2	1.45
	AUTUMN	30	3.4	4.8	5.2	5.7	6.3	9.8	11.1	12.2	15.4	17.0	24.3	10.1	8.9	1.67
	57 61	122	2.7	4.4	5.1	5.8	6.4	7.8	8.9	10.3	11.8	16.0	33.5	9.0	7.9	1.63
STAMFORD	WINTER	13	3.8	3.8	4.5	6.9	7.4	10.3	12.2	13.3	14.4	21.8	21.7	10.9	9.3	1.82
	SPRING	14	1.7	1.7	3.2	3.8	6.3	6.9	7.4	8.8	10.3	16.1	16.9	7.7	6.2	2.02
	SUMMER	13	2.4	2.5	4.2	4.5	5.3	5.8	6.1	6.3	7.4	9.6	9.7	5.7	5.3	1.55
	AUTUMN	12	4.7	4.9	5.3	6.3	7.4	10.8	11.3	11.7	13.3	14.4	18.8	10.1	9.2	1.59
	57 60	52	1.7	3.2	4.3	5.4	6.2	7.0	8.5	10.3	12.8	15.7	21.7	8.6	7.2	1.83
WATERBURY	WINTER	8	4.2	4.5	5.3	5.3	6.3	8.1	8.8	12.2	12.2	17.0	29.8	11.0	9.0	1.90
	SPRING	13	3.3	3.3	3.6	3.7	3.8	4.9	5.3	5.8	6.3	10.3	12.6	5.7	5.2	1.53
	SUMMER	14	4.2	4.5	5.4	5.6	5.9	6.0	6.2	7.4	8.8	11.6	11.6	7.1	6.8	1.37
	AUTUMN	11	2.4	2.7	4.5	6.3	7.4	8.8	9.6	10.3	14.4	32.9	45.6	13.0	9.3	2.28
	58 61	46	2.4	3.7	4.3	5.3	5.7	6.1	7.6	8.6	10.8	13.3	45.6	8.8	7.1	1.80
DELAWARE																
WILMINGTON	WINTER	23	4.1	7.4	12.2	17.0	18.0	19.5	21.2	23.6	27.9	45.9	55.3	22.0	18.6	1.85
	SPRING	26	4.9	7.4	8.8	10.8	11.7	13.1	14.4	15.7	17.6	18.8	23.5	13.2	12.3	1.51
	SUMMER	25	3.8	5.0	6.3	7.6	8.1	8.8	9.3	10.0	11.3	17.0	38.9	10.4	9.1	1.61
	AUTUMN	22	3.0	3.2	6.9	7.8	8.5	9.1	9.7	10.3	17.0	23.6	33.2	11.6	9.8	1.82
	57 61	96	3.0	6.3	7.5	8.6	9.6	11.1	13.6	16.6	19.3	23.6	55.3	14.2	11.9	1.80
DIST. OF COL.																
WASHINGTON	WINTER	24	7.5	8.8	11.3	12.6	14.0	18.0	20.0	22.2	23.6	32.9	48.6	19.5	17.1	1.66
	SPRING	23	4.7	6.3	8.3	9.1	9.7	10.9	12.2	13.3	14.4	23.6	30.0	12.6	11.4	1.58
	SUMMER	20	4.1	5.3	5.8	6.3	6.9	7.4	8.1	8.8	11.3	13.3	14.6	8.2	7.8	1.39
	AUTUMN	25	3.1	3.8	5.3	7.0	8.1	10.9	12.2	21.8	25.0	30.4	38.2	14.4	11.0	2.16
	58 61	92	3.1	5.5	6.9	8.2	9.5	11.1	12.8	15.1	21.4	27.0	48.6	13.9	11.6	1.84
FLORIDA																
JACKSONVILLE	WINTER	12	6.4	7.4	8.8	13.3	14.4	17.0	18.5	20.0	30.4	32.9	33.2	18.1	16.2	1.67
	SPRING	14	3.9	4.2	5.3	6.9	9.2	9.6	9.9	14.4	17.0	20.0	29.8	11.7	9.9	1.82
	SUMMER	12	2.2	2.3	3.2	5.6	5.8	6.1	6.3	7.4	8.3	8.8	9.7	6.2	5.7	1.56
	AUTUMN	14	5.1	4.9	6.7	7.0	9.3	9.8	10.3	12.2	14.4	20.0	20.7	10.6	9.7	1.57
	58 60	52	2.2	4.7	5.8	6.9	8.1	9.4	10.3	13.3	17.6	21.8	33.2	11.6	9.7	1.84
MIAMI	WINTER	18	2.4	3.8	4.9	5.3	6.3	7.8	8.5	9.3	9.8	12.9	14.0	7.7	7.0	1.62
	SPRING	20	2.3	3.0	3.8	4.2	4.5	5.0	6.3	7.0	8.8	10.3	12.0	6.0	5.4	1.58
	SUMMER	19	2.3	2.3	2.8	3.1	3.5	4.2	4.5	5.6	6.3	7.4	8.4	4.6	4.2	1.55
	AUTUMN	18	3.1	3.2	3.6	3.8	4.2	4.5	5.3	6.3	6.7	7.4	9.3	5.2	4.9	1.41
	57 61	75	2.3	2.9	3.4	4.0	4.4	5.2	6.1	7.0	8.1	9.8	14.0	5.9	5.3	1.59
ORLANDO	WINTER	11	4.9	5.3	6.3	7.4	8.8	11.3	11.7	12.2	14.4	17.0	27.8	11.6	10.4	1.62
	SPRING	11	2.7	2.7	3.8	4.0	4.3	4.9	5.3	6.3	7.4	10.3	11.3	5.7	5.2	1.50
	SUMMER	11	3.4	3.4	3.5	3.7	3.8	4.5	4.9	5.3	6.3	6.9	7.0	4.8	4.6	1.29
	AUTUMN	12	1.6	1.7	2.0	4.5	4.8	5.0	5.3	7.4	8.8	9.6	9.0	5.6	4.9	1.76
	59 61	45	1.6	3.4	3.9	4.4	4.8	5.3	6.5	7.9	9.8	11.8	27.8	6.9	5.9	1.72

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ST PETERSBURG	WINTER	6	3.3	3.5	3.5	3.8	3.8	4.2	4.5	4.5	5.3	5.3	8.2	4.8	4.5	1.37
	SPRING	7	3.4	3.8	3.8	4.0	4.2	4.3	4.3	4.5	4.9	4.9	5.0	4.1	4.1	1.14
	SUMMER	6	3.1	2.9	2.9	3.0	3.0	3.2	3.8	3.8	4.5	4.5	4.7	3.6	3.6	1.19
	AUTUMN	6	3.1	3.2	3.2	3.5	3.5	3.8	4.5	4.5	5.3	5.3	8.9	4.7	4.4	1.48
	61 61	25	3.1	3.1	3.3	3.6	3.8	4.1	4.2	4.5	4.8	5.3	8.9	4.3	4.1	1.31
TAMPA	WINTER	30		4.5	5.8	7.0	7.9	8.6	9.8	13.3	15.7	21.8	28.8	10.9	8.2	3.00
	SPRING	33	2.7	3.0	4.7	5.1	5.7	6.4	6.8	7.2	8.8	13.7	25.9	7.5	6.6	1.64
	SUMMER	33	.9	2.5	3.7	4.3	4.7	5.0	5.3	5.9	6.9	8.8	11.4	5.5	4.9	1.65
	AUTUMN	33	3.2	3.2	4.7	5.3	6.1	7.1	7.9	8.6	9.3	10.3	12.5	7.2	6.7	1.49
	57 61	129		3.3	4.5	5.0	5.7	6.5	7.2	8.3	9.8	13.3	28.8	7.7	6.5	1.99
GEORGIA																
ATLANTA	WINTER	29	4.3	5.8	6.7	7.6	8.2	8.8	10.7	11.8	17.0	23.6	70.0	13.4	10.8	1.82
	SPRING	31	3.5	4.5	5.8	6.6	7.4	8.2	8.8	11.6	15.3	18.5	46.5	11.4	9.3	1.83
	SUMMER	29	3.2	4.9	6.0	7.0	7.8	8.3	8.6	9.8	12.9	17.0	58.2	11.2	9.0	1.90
	AUTUMN	28	3.2	3.8	6.1	6.9	7.9	8.6	9.3	10.0	12.2	18.5	32.2	10.4	9.0	1.71
	57 61	117	3.2	5.3	6.0	7.0	7.8	8.4	9.2	11.1	14.4	20.0	70.0	11.6	9.5	1.77
AUGUSTA	WINTER	12	2.1	2.3	3.2	6.3	7.4	8.1	8.8	10.3	15.7	17.0	35.2	10.6	8.0	2.17
	SPRING	14	2.6	2.7	3.8	4.0	4.5	4.9	5.3	8.8	9.6	12.2	32.9	8.0	6.2	1.93
	SUMMER	13	3.6	3.8	4.3	4.5	5.3	6.3	7.4	7.8	8.1	8.8	11.3	6.3	6.0	1.40
	AUTUMN	12	2.9	3.2	4.5	6.0	6.3	8.1	8.8	12.2	23.6	27.9	48.2	14.0	10.1	2.29
	58 61	51	2.1	3.4	4.1	4.5	5.6	7.4	8.1	8.8	11.6	20.0	48.2	9.6	7.3	1.98
COLUMBUS	WINTER	11	4.1	4.0	4.3	4.5	5.8	14.4	15.7	17.0	20.0	23.6	28.5	12.4	10.0	2.04
	SPRING	14	3.5	3.8	4.5	6.3	8.8	9.6	10.3	12.2	12.8	13.9	14.1	9.1	8.3	1.61
	SUMMER	13	3.6	3.8	4.2	4.3	4.5	5.3	6.9	7.4	8.8	10.3	12.7	6.4	5.9	1.53
	AUTUMN	13	3.0	3.2	4.5	5.8	6.3	7.4	8.8	9.6	10.3	17.0	17.7	8.4	7.4	1.71
	57 60	51	3.0	3.9	4.2	4.9	6.1	7.8	9.3	10.9	13.3	16.1	28.5	9.0	7.7	1.74
MACON	WINTER	12	4.2	4.5	5.3	9.6	10.3	12.2	12.9	13.7	25.8	27.9	37.8	14.7	11.9	1.96
	SPRING	13	2.5	2.4	2.7	4.5	4.8	5.3	6.3	7.4	12.2	21.8	20.5	7.9	6.2	2.07
	SUMMER	12	4.4	4.5	4.9	6.3	6.7	7.0	7.4	7.8	8.5	8.8	9.8	6.9	6.7	1.29
	AUTUMN	13	4.2	4.5	5.8	6.3	7.4	8.8	10.3	14.4	23.6	38.9	43.9	15.6	11.3	2.25
	58 60	50	2.5	4.2	4.8	5.5	6.5	7.6	8.8	11.3	14.0	25.8	43.9	11.3	8.6	2.02
SAVANNAH	WINTER	13	5.3	5.3	8.1	8.8	10.3	12.2	15.7	17.0	18.5	23.6	34.3	14.0	12.1	1.74
	SPRING	13	2.2	2.3	3.5	3.8	4.2	5.3	6.3	7.4	8.8	10.3	14.4	6.2	5.4	1.69
	SUMMER	14	1.5	1.6	2.2	2.3	3.0	3.2	3.5	5.3	5.8	6.9	6.9	3.8	3.4	1.68
	AUTUMN	9	1.9	2.0	3.2	4.5	5.8	6.3	6.3	7.4	8.1	8.8	36.5	8.9	6.1	2.29
	59 61	49	1.5	2.2	3.1	3.8	5.0	6.0	6.9	8.2	10.3	17.0	36.5	8.1	6.0	2.12
HAWAII																
HONOLULU	WINTER	30	1.9	2.4	2.6	3.0	3.8	5.6	6.3	7.4	8.0	8.6	14.3	5.6	4.9	1.72
	SPRING	33	1.6	2.1	2.7	3.2	3.6	4.3	4.8	5.2	5.7	6.9	9.2	4.4	4.0	1.55
	SUMMER	30	.8	1.5	1.7	2.1	2.5	3.0	3.8	4.9	6.3	8.3	10.5	3.9	3.2	1.98
	AUTUMN	31	.8	1.6	2.4	2.6	3.2	4.3	4.9	5.6	6.9	8.8	12.1	4.7	3.9	1.96
	57 61	124	.8	1.7	2.4	2.7	3.3	4.1	4.9	5.7	6.9	8.4	14.3	4.6	3.9	1.83
IDAHO																
BOISE	WINTER	31	4.2	5.0	6.3	8.1	10.3	12.2	14.4	16.4	19.0	27.9	33.6	13.8	11.7	1.79
	SPRING	33	3.5	4.3	5.0	5.6	6.7	7.8	8.4	9.2	10.3	14.4	23.2	8.5	7.6	1.57
	SUMMER	32	2.5	3.2	4.2	4.8	5.3	6.1	6.7	7.4	10.7	11.8	36.8	7.7	6.4	1.73
	AUTUMN	30	4.1	7.4	8.2	9.2	10.3	11.1	11.9	13.7	15.7	23.6	31.0	12.5	11.4	1.55
	57 61	126	2.5	4.4	5.2	6.4	7.6	8.9	10.4	11.7	14.2	18.8	36.8	10.6	9.0	1.76
ILLINOIS																
CHICAGO	WINTER	21	8.2	8.3	9.3	10.3	12.6	14.0	15.1	16.4	20.0	22.4	39.0	15.6	14.4	1.48
	SPRING	20	6.6	8.8	10.3	11.6	13.3	14.8	15.7	16.6	20.0	23.6	34.7	15.2	14.1	1.48
	SUMMER	22	5.9	7.4	8.8	10.3	12.6	13.5	14.4	15.7	17.8	19.3	22.1	13.3	12.6	1.42
	AUTUMN	24	8.6	10.3	11.4	12.2	14.4	16.1	17.8	20.0	21.8	25.0	26.5	16.4	15.6	1.38
	58 61	87	5.9	8.6	10.0	11.6	13.1	14.4	15.6	17.0	19.7	22.5	39.0	15.1	14.2	1.44
EAST ST LOUIS	WINTER	11	15.2	17.0	27.9	30.4	32.9	36.9	38.9	42.4	45.9	59.0	58.5	37.0	34.9	1.45
	SPRING	12	5.5	6.3	8.8	9.8	10.3	14.4	18.0	19.0	23.6	27.9	30.0	15.8	14.0	1.71
	SUMMER	13	2.7	2.7	7.4	8.8	11.3	14.4	17.0	20.0	23.6	32.9	68.0	18.7	13.7	2.28
	AUTUMN	9	5.7	6.3	10.3	12.2	15.3	16.1	16.1	17.0	27.9	32.9	35.1	17.9	15.4	1.80
	58 61	45	2.7	7.4	9.6	12.2	15.4	18.5	23.6	28.9	32.9	42.4	68.0	22.2	17.7	2.04

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PEORIA	WINTER	6	9.1	9.6	9.6	10.3	10.3	14.4	17.0	17.0	42.4	42.4	45.2	22.1	17.8	2.02
	SPRING	6	5.4	5.8	5.8	6.3	6.3	10.3	12.2	12.2	17.0	17.0	43.2	14.9	11.3	2.13
	SUMMER	6	5.8	6.3	6.3	6.7	6.7	7.0	7.4	7.4	8.1	8.1	7.8	7.1	7.1	1.11
	AUTUMN	7	7.3	7.4	7.4	8.8	10.3	13.3	13.3	14.4	23.6	23.6	52.7	17.8	14.1	1.96
	58 58	25	5.4	6.3	6.9	7.9	8.8	9.9	12.2	14.4	17.0	43.6	52.7	15.6	12.0	1.96
ROCKFORD	WINTER	13	4.0	4.2	6.9	7.4	7.9	8.8	9.3	9.8	10.3	12.2	12.7	8.4	7.9	1.42
	SPRING	14	2.5	2.7	3.2	3.8	5.3	6.3	6.7	7.4	8.8	17.0	21.9	7.5	6.2	1.86
	SUMMER	13	3.4	3.8	4.3	4.5	5.3	6.3	6.9	7.4	8.8	9.8	10.3	6.4	6.0	1.45
	AUTUMN	12	1.8	1.9	2.0	5.3	5.6	6.0	6.3	7.4	8.8	10.3	10.9	6.2	5.4	1.77
	59 61	52	1.8	3.2	4.2	5.1	6.0	6.7	7.4	8.4	9.7	11.3	21.9	7.1	6.3	1.65
INDIANA																
EAST CHICAGO	WINTER	26	4.7	6.3	7.0	8.1	8.8	9.9	11.3	12.2	15.7	17.0	22.3	11.1	10.2	1.52
	SPRING	31	3.1	3.8	4.8	5.8	6.7	7.4	9.3	10.9	14.4	20.0	36.0	9.9	8.2	1.84
	SUMMER	25	1.9	2.9	3.2	5.6	6.3	7.4	8.0	8.8	10.3	12.9	14.4	7.3	6.4	1.72
	AUTUMN	30	2.6	5.3	7.0	7.6	8.3	9.0	9.8	11.3	15.7	21.8	35.2	11.2	9.6	1.77
	57 61	112	1.9	4.0	5.6	6.8	7.6	8.5	9.5	10.8	14.0	17.0	36.0	10.0	8.5	1.76
EVANSVILLE	WINTER	14	3.4	3.8	7.9	8.3	9.3	9.8	10.3	11.6	12.2	18.5	19.4	10.4	9.5	1.58
	SPRING	13	2.0	2.0	3.8	4.5	4.9	6.3	7.4	8.8	10.3	17.0	20.2	7.7	6.3	1.93
	SUMMER	13	2.3	2.3	4.2	4.3	4.5	5.3	5.6	6.0	6.3	8.8	9.7	5.4	5.1	1.43
	AUTUMN	11	1.9	2.0	4.5	5.3	6.3	8.1	8.8	10.3	12.2	23.6	43.2	11.2	8.0	2.27
	57 60	51	1.9	3.5	4.3	4.9	5.7	7.4	8.4	9.6	11.3	17.0	43.2	8.6	7.1	1.86
FORT WAYNE	WINTER	14	7.1	7.4	8.8	9.2	9.9	10.3	10.9	12.2	17.0	20.0	24.7	12.5	11.7	1.43
	SPRING	12	5.7	5.8	6.3	7.0	7.4	8.1	8.8	10.3	12.2	13.3	14.4	8.7	8.4	1.36
	SUMMER	13	3.4	3.8	4.5	4.9	5.3	6.3	6.9	7.4	8.1	10.3	11.3	6.6	6.2	1.43
	AUTUMN	13	3.2	3.2	5.3	5.8	6.3	11.3	12.2	12.9	13.7	20.0	28.2	10.9	9.0	1.92
	57 60	52	3.2	4.5	5.6	6.7	7.6	8.8	9.9	11.0	12.6	17.0	28.2	9.8	8.7	1.63
GARY	WINTER	13	8.9	10.3	11.3	11.7	12.2	14.4	15.3	16.1	17.0	27.9	46.8	17.2	15.5	1.55
	SPRING	13	7.2	7.4	8.8	9.3	9.8	10.9	11.6	12.2	14.4	18.5	19.6	11.6	11.1	1.35
	SUMMER	13	4.2	4.5	8.8	9.6	10.3	11.6	12.2	14.4	15.7	20.0	21.9	12.2	11.2	1.56
	AUTUMN	11	3.2	3.2	7.4	10.3	12.9	14.4	15.1	15.7	16.4	17.0	21.7	13.0	11.7	1.70
	58 60	50	3.2	7.4	9.2	10.3	11.3	12.2	13.8	15.2	16.5	20.0	46.8	13.5	12.3	1.56
HAMMOND	WINTER	12	2.1	2.3	2.7	6.9	7.4	8.8	11.3	12.2	17.0	20.0	21.4	10.1	8.2	2.11
	SPRING	13	3.4	3.8	5.3	7.4	7.9	8.8	9.6	10.3	14.4	21.8	22.4	10.8	9.4	1.77
	SUMMER	13	1.6	1.7	2.7	4.5	5.3	7.4	8.1	8.8	10.3	14.4	15.3	7.3	6.0	2.01
	AUTUMN	13	4.4	4.5	6.9	7.4	9.3	10.3	11.3	12.2	17.0	20.0	23.3	11.3	10.1	1.65
	59 61	51	1.6	2.7	4.8	6.5	7.4	8.8	10.0	11.8	15.1	19.0	23.3	9.9	8.3	1.91
INDIANAPOLIS	WINTER	30	6.7	8.8	12.2	14.4	15.7	17.0	20.0	22.2	25.0	30.4	45.6	19.3	17.7	1.55
	SPRING	28	7.2	9.1	10.0	10.7	11.8	13.1	14.4	16.4	18.0	21.8	37.0	14.8	13.7	1.45
	SUMMER	30	2.5	6.3	7.4	8.2	9.2	10.3	12.9	14.9	16.5	18.5	30.8	12.0	10.8	1.60
	AUTUMN	31	4.6	8.8	9.9	11.6	13.1	14.9	16.5	18.5	20.9	23.6	78.0	16.9	14.6	1.66
	57 61	119	2.5	7.7	9.4	10.9	12.6	14.3	15.7	17.4	20.0	24.5	78.0	15.8	14.0	1.62
SOUTH BEND	WINTER	9	3.7	3.8	4.5	6.7	7.0	7.4	7.4	10.3	11.3	12.2	26.6	9.7	8.2	1.81
	SPRING	12	3.3	3.8	5.3	6.0	6.3	7.4	8.1	8.8	14.4	17.0	36.3	10.6	8.5	1.89
	SUMMER	15	2.7	3.8	4.2	4.9	5.3	6.3	7.4	9.6	10.3	17.0	20.7	7.9	6.8	1.76
	AUTUMN	13	5.2	5.3	6.0	6.3	8.1	9.3	9.8	10.3	11.3	14.4	22.4	9.6	8.9	1.49
	59 61	49	2.7	4.0	5.1	5.8	6.5	7.7	8.8	10.0	12.2	15.7	36.3	9.3	8.0	1.73
TERRE HAUTE	WINTER	6	5.4	6.3	6.3	17.0	17.0	20.0	23.6	23.6	30.4	30.4	30.9	20.9	18.3	1.91
	SPRING	7	7.9	8.8	8.8	11.3	12.2	17.0	17.0	18.5	20.0	20.0	23.5	15.3	14.3	1.48
	SUMMER	6	5.2	5.3	5.3	6.3	6.3	7.9	8.3	8.3	8.8	8.8	19.0	9.1	8.2	1.58
	AUTUMN	7	4.2	4.5	4.5	7.4	8.8	11.3	11.3	12.2	23.6	23.6	34.3	14.2	11.4	2.03
	61 61	26	4.2	5.8	7.4	8.2	8.8	11.7	17.0	18.5	21.2	23.6	34.3	14.9	12.5	1.84
IOWA																
DAVENPORT	WINTER	9	4.8	4.9	5.3	5.6	6.0	6.3	6.3	8.8	12.2	14.4	20.1	9.0	8.0	1.65
	SPRING	12	3.7	3.8	6.6	7.1	7.4	8.1	8.8	9.6	13.3	14.4	23.6	9.7	8.8	1.59
	SUMMER	13	5.0	5.3	6.3	7.4	7.6	8.0	8.2	8.4	8.6	10.3	19.2	8.4	8.0	1.39
	AUTUMN	12	4.1	4.2	4.5	5.3	5.6	6.0	6.3	7.4	8.8	12.2	12.9	7.0	6.6	1.43
	58 61	46	3.7	4.8	5.4	6.1	6.7	7.5	8.1	8.6	10.3	13.3	23.6	8.5	7.8	1.51

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
DES MOINES	WINTER	31	3.0	4.8	5.8	8.1	9.1	10.3	11.3	12.2	17.0	20.0	29.6	11.6	10.1	1.72
	SPRING	32	3.3	3.8	5.1	6.3	7.9	9.1	10.0	10.9	12.2	20.0	39.4	10.6	8.9	1.79
	SUMMER	31	2.0	3.8	4.7	5.3	5.8	6.9	8.8	10.3	11.7	14.4	18.3	8.1	7.2	1.69
	AUTUMN	32	.6	3.4	4.5	5.4	5.9	6.3	7.4	10.3	14.4	21.2	24.0	9.2	7.1	2.19
	57 61	126	.6	4.0	5.0	5.7	6.6	8.5	9.9	11.1	13.1	18.7	39.4	9.9	8.2	1.88
KANSAS																
KANSAS CITY	WINTER	6	3.4	3.8	3.8	8.8	8.8	10.3	13.3	13.3	14.4	14.4	15.0	10.4	9.4	1.74
	SPRING	7	3.3	3.5	3.5	3.8	4.5	6.3	6.3	9.6	10.3	10.3	11.8	6.7	6.0	1.67
	SUMMER	7	4.9	5.3	5.3	5.8	6.3	8.8	8.8	10.3	12.2	12.2	21.3	9.5	8.4	1.67
	AUTUMN	6	4.2	4.5	4.5	7.4	7.4	8.8	12.2	12.2	14.4	14.4	14.5	9.6	8.8	1.59
	60 60	26	3.3	3.8	4.5	6.0	7.4	8.8	9.9	10.9	12.9	14.4	21.3	9.0	7.9	1.67
TOPEKA	WINTER	11	3.0	3.2	4.2	4.5	5.3	7.4	8.1	8.8	10.3	13.3	14.2	7.4	6.7	1.64
	SPRING	13	2.3	2.3	3.2	4.5	4.9	5.6	5.8	6.1	6.3	12.2	17.6	6.3	5.4	1.73
	SUMMER	12	.8	.9	2.3	3.2	4.5	4.9	5.3	5.8	8.8	10.3	12.6	5.3	4.3	2.07
	AUTUMN	11	1.5	1.6	1.7	3.5	3.8	4.5	5.3	5.8	6.3	6.9	6.8	4.5	4.1	1.69
	59 61	47	.8	2.3	3.1	4.0	4.6	5.3	5.7	6.3	8.1	10.3	17.6	5.9	5.0	1.81
WICHITA	WINTER	30	1.7	3.0	4.0	4.5	5.0	5.5	6.1	7.4	8.2	10.3	22.8	6.6	5.7	1.70
	SPRING	25	2.2	2.6	2.9	3.5	4.5	5.3	6.9	8.3	9.2	10.3	11.1	5.9	5.2	1.70
	SUMMER	29	2.5	3.3	3.7	4.5	5.3	6.3	6.6	7.0	7.4	9.8	13.2	6.1	5.7	1.50
	AUTUMN	31	.9	2.5	3.2	3.6	4.2	5.3	6.6	7.1	8.1	11.3	17.3	6.0	5.1	1.84
	57 61	115	.9	2.8	3.4	4.0	4.8	5.6	6.5	7.2	8.4	10.3	22.8	6.2	5.4	1.69
KENTUCKY																
LOUISVILLE	WINTER	4	9.1	.1	9.6	9.6	10.3	10.3	10.3	12.2	12.2	27.9	27.3	14.5	13.0	1.66
	SPRING	7	4.0	4.5	4.5	5.6	6.0	6.3	6.3	8.8	11.3	11.3	11.7	7.5	7.0	1.49
	SUMMER	5	4.9	5.3	5.3	5.8	5.8	6.3	6.3	8.8	8.8	10.3	9.8	6.8	6.6	1.31
	AUTUMN	5	7.6	8.1	8.1	8.8	8.8	12.2	12.2	14.4	14.4	45.9	42.7	16.7	13.3	2.00
	61 61	21	4.0	5.3	5.7	6.1	7.8	8.8	9.8	10.8	11.7	14.4	42.7	10.9	9.1	1.74
LOUISANA																
BATON ROUGE	WINTER	12	3.5	3.8	5.3	7.9	8.3	8.8	10.3	11.3	14.4	32.9	41.9	13.2	10.2	2.02
	SPRING	12	6.3	6.3	8.8	9.8	10.3	10.9	11.6	12.2	20.0	23.6	33.6	13.4	12.1	1.57
	SUMMER	13	5.1	5.3	6.0	6.3	7.4	10.3	10.9	11.6	12.2	13.7	14.3	9.6	9.0	1.44
	AUTUMN	13	4.0	4.5	6.3	9.6	10.3	12.2	14.4	17.0	25.0	27.9	33.3	15.0	12.3	1.96
	57 60	50	3.5	5.5	6.3	8.2	9.4	10.5	11.4	12.6	14.4	26.5	41.9	12.8	10.8	1.75
NEW ORLEANS	WINTER	30	4.7	5.3	6.5	7.2	8.3	9.6	10.8	12.2	14.4	18.5	41.6	11.4	10.0	1.63
	SPRING	33	1.8	2.7	5.3	6.3	7.0	8.8	10.3	12.2	13.3	15.7	23.2	9.4	7.9	1.88
	SUMMER	34	3.5	4.0	5.8	6.7	7.8	8.8	9.6	10.9	12.6	14.0	16.7	9.0	8.2	1.55
	AUTUMN	32	5.1	6.3	8.2	9.6	10.9	12.6	13.7	15.3	18.2	20.0	29.5	13.2	12.2	1.52
	57 61	129	1.8	4.8	6.3	7.3	8.5	9.7	11.0	12.7	14.1	17.4	41.6	10.7	9.4	1.69
SHREVEPORT	WINTER	13	1.4	1.4	3.8	4.0	4.3	6.9	7.4	8.1	8.8	25.8	25.0	8.3	5.8	2.38
	SPRING	12	.7	.7	3.0	5.3	6.9	7.4	8.8	10.3	17.0	20.0	21.0	9.4	6.7	2.25
	SUMMER	12	3.2	3.2	3.8	6.3	6.6	6.9	7.1	7.4	8.8	10.3	11.5	6.8	6.4	1.45
	AUTUMN	12	3.3	3.8	5.3	7.4	7.9	8.3	8.8	11.3	14.4	20.0	28.8	10.7	9.3	1.74
	59 61	49	.7	3.0	4.0	5.8	6.7	7.3	7.9	8.8	11.6	18.5	28.8	8.8	6.9	2.08
MAINE																
PORTLAND	WINTER	23	3.8	5.3	6.1	6.6	7.1	8.8	11.6	14.4	17.0	20.0	33.4	11.8	10.0	1.78
	SPRING	26	2.3	3.2	4.8	5.3	5.7	6.3	7.8	8.5	10.3	12.2	25.3	7.9	6.9	1.72
	SUMMER	26	2.2	2.9	3.2	3.7	4.0	4.9	5.7	6.1	7.0	8.8	16.7	5.5	4.9	1.58
	AUTUMN	19	1.8	2.7	3.6	4.2	6.6	7.1	7.4	8.8	9.8	11.3	18.7	7.3	6.2	1.82
	58 61	94	1.8	3.1	3.9	5.0	5.8	6.5	7.2	8.6	10.6	15.7	33.4	8.1	6.7	1.81
MARYLAND																
BALTIMORE	WINTER	30	4.8	7.4	8.5	9.8	12.2	14.4	18.0	21.2	25.8	32.9	55.0	17.9	14.9	1.84
	SPRING	31	2.5	7.4	8.5	9.8	11.1	12.5	13.5	14.4	18.0	21.8	33.6	13.5	12.2	1.62
	SUMMER	33	3.3	4.9	6.1	7.7	8.5	9.4	9.9	10.8	12.2	14.4	16.7	9.4	8.7	1.51
	AUTUMN	33	4.4	7.4	8.1	8.6	9.6	11.1	12.2	13.5	15.1	18.5	22.9	11.7	10.9	1.47
	57 61	127	2.5	6.3	7.9	8.7	9.8	11.1	12.5	14.1	16.8	21.5	55.0	13.0	11.4	1.67
MASSACHUSETTS																
BOSTON	WINTER	29	4.6	7.8	8.8	9.9	11.6	13.7	15.1	17.0	20.0	27.9	35.8	15.4	13.7	1.63
	SPRING	30	5.4	6.9	9.6	10.9	11.9	13.3	15.1	17.0	18.8	21.8	26.3	14.1	13.0	1.51
	SUMMER	37	4.0	5.3	5.9	6.6	7.2	8.5	9.3	10.3	14.4	16.0	24.4	9.6	8.7	1.55
	AUTUMN	30	4.8	5.3	7.0	8.1	9.2	10.3	12.2	13.9	17.6	19.4	25.5	11.9	10.7	1.59
	57 61	126	4.0	5.9	7.1	8.4	9.6	10.9	12.8	15.0	17.4	20.0	35.8	12.6	11.2	1.62

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
BROCKTON	WINTER	23	.8	1.7	3.8	6.3	10.3	12.2	18.5	25.8	32.9	63.9	104.0	24.2	12.0	3.68
	SPRING	25	1.1	3.2	3.8	5.8	6.9	8.3	9.2	10.3	12.2	18.5	41.3	9.6	7.4	2.11
	SUMMER	26	.2	2.0	2.5	3.5	3.9	4.4	5.0	5.5	6.1	6.7	8.3	4.4	3.8	2.04
	AUTUMN	23	1.9	2.7	3.5	4.5	6.7	7.9	8.8	12.2	13.7	17.0	21.7	8.9	7.2	2.01
	58 61	97	.2	2.4	3.3	4.2	5.4	6.7	8.0	10.3	14.4	20.0	104.0	11.5	6.9	2.65
CAMBRIDGE	WINTER	17	.9	1.7	2.0	3.8	6.3	7.0	7.4	9.6	14.4	17.0	34.3	9.1	6.2	2.58
	SPRING	20	1.1	2.0	3.8	4.5	5.3	6.3	6.9	7.4	8.3	12.2	28.4	7.6	5.8	2.11
	SUMMER	19	1.4	4.0	4.3	5.6	6.3	7.4	7.7	8.2	8.8	9.8	15.0	7.0	6.3	1.66
	AUTUMN	19	2.1	2.7	4.3	5.8	6.5	7.0	7.2	8.8	11.3	14.4	56.4	9.9	7.2	2.04
	59 61	75	.9	2.3	4.0	5.0	6.1	6.8	7.3	8.4	9.8	15.3	56.4	8.3	6.4	2.07
FALL RIVER	WINTER	16	3.9	4.3	4.5	7.8	8.1	8.8	12.8	13.3	14.4	18.0	18.9	10.7	9.5	1.70
	SPRING	17	3.8	4.5	5.3	7.4	8.8	9.8	10.3	13.7	17.0	18.5	24.2	11.1	9.7	1.72
	SUMMER	18	2.6	4.5	5.0	5.3	6.7	7.4	9.6	10.9	11.6	14.4	26.8	9.3	7.9	1.76
	AUTUMN	16	2.4	3.2	4.0	4.5	5.3	6.7	7.4	8.1	10.3	12.2	19.1	7.6	6.5	1.76
	58 61	67	2.4	4.1	4.7	6.1	7.2	8.3	9.6	11.8	13.9	17.9	26.8	9.7	8.3	1.75
LAWRENCE	WINTER	18	1.7	1.7	2.4	2.6	3.2	3.5	3.8	6.3	6.7	7.4	17.0	5.0	4.0	1.87
	SPRING	19	1.9	2.0	3.2	3.6	4.2	4.9	5.3	6.3	12.9	14.4	23.0	7.2	5.5	2.08
	SUMMER	18	1.9	2.9	3.2	4.0	4.3	5.3	6.3	7.4	10.3	14.4	14.9	6.6	5.6	1.79
	AUTUMN	19	2.2	2.9	3.2	5.3	5.8	6.3	6.7	7.4	10.3	12.2	14.7	7.0	6.2	1.70
	57 61	74	1.7	2.3	3.0	3.5	4.3	5.2	6.0	7.0	10.3	14.0	23.0	6.5	5.3	1.88
LOWELL	WINTER	8	2.9	3.0	3.2	3.2	3.8	5.3	8.1	8.8	8.8	12.2	12.8	6.9	6.0	1.80
	SPRING	13	2.9	2.8	3.1	3.2	5.3	8.1	8.8	9.3	9.8	20.0	36.4	9.3	6.9	2.13
	SUMMER	11	.9	.9	1.7	2.0	3.8	6.3	7.4	7.8	8.1	8.5	8.8	5.3	4.3	2.20
	AUTUMN	11	1.1	1.2	2.3	2.5	2.7	4.5	5.8	6.3	8.8	12.2	19.6	6.0	4.5	2.26
	59 61	43	.9	2.0	2.9	3.2	4.5	5.8	7.6	8.2	8.8	12.2	36.4	7.0	5.3	2.13
LYNN	WINTER	16	2.9	4.0	4.3	5.8	6.3	6.6	6.9	7.1	7.4	8.8	12.0	6.5	6.1	1.43
	SPRING	18	2.1	3.2	4.2	4.5	5.6	6.3	6.7	7.2	7.4	27.9	46.0	10.4	7.0	2.25
	SUMMER	19	3.9	4.5	6.7	7.4	8.3	10.3	10.9	12.2	13.7	17.0	47.5	11.7	9.7	1.80
	AUTUMN	20	2.5	3.4	3.7	4.5	5.8	6.7	7.4	8.8	11.6	17.0	33.3	9.1	7.1	1.97
	57 61	73	2.1	3.6	4.3	5.6	6.4	6.9	7.3	8.6	11.4	17.0	47.5	9.5	7.4	1.91
NEW BEDFORD	WINTER	18	1.2	2.3	3.8	4.2	4.8	5.3	6.3	7.0	7.4	10.3	17.8	6.3	5.3	1.84
	SPRING	21	.6	.7	1.6	2.2	3.2	3.7	4.0	4.3	4.8	5.3	5.7	3.3	2.8	1.91
	SUMMER	19	.7	1.7	3.4	3.8	4.5	4.8	5.0	5.3	6.3	7.4	15.7	5.1	4.3	1.91
	AUTUMN	18	.8	1.7	2.7	3.4	3.8	4.5	5.3	6.9	7.4	10.3	11.7	5.4	4.4	2.04
	59 61	76	.6	1.6	2.5	3.5	3.9	4.4	4.9	5.4	6.6	8.8	17.8	4.9	4.0	1.99
QUINCY	WINTER	21	.5	3.5	4.2	4.9	5.8	12.2	17.0	19.0	21.8	27.9	43.9	14.0	9.4	2.84
	SPRING	25	2.9	4.5	6.3	8.1	8.8	9.9	10.8	12.2	15.3	20.0	21.1	10.7	9.4	1.72
	SUMMER	24	2.2	3.2	5.6	6.3	7.9	8.8	9.2	9.9	10.3	11.7	13.9	8.0	7.4	1.57
	AUTUMN	24	2.7	3.2	4.5	6.3	7.0	7.4	8.3	12.2	14.4	23.6	31.9	10.3	8.2	1.97
	58 61	94	.5	3.6	4.9	6.3	7.7	8.9	10.0	11.6	15.4	20.7	43.9	10.6	8.5	2.01
SOMERVILLE	WINTER	18	1.7	2.7	3.5	3.8	4.5	5.0	6.6	7.1	7.4	8.8	9.8	5.6	5.1	1.59
	SPRING	19	1.3	1.6	3.4	3.8	5.3	6.0	6.3	7.9	8.8	10.3	15.2	6.3	5.2	1.95
	SUMMER	19	4.0	4.2	4.5	5.3	5.8	6.3	6.6	7.1	7.9	8.8	11.3	6.4	6.1	1.33
	AUTUMN	19	3.4	3.4	3.6	3.8	4.7	5.1	5.3	6.3	7.4	8.8	14.3	6.0	5.5	1.52
	57 61	75	1.3	3.3	3.7	4.4	4.9	5.6	6.4	7.2	8.1	9.7	15.2	6.1	5.5	1.61
SPRINGFIELD	WINTER	22	1.8	2.0	3.5	5.6	6.3	6.9	7.4	8.8	17.0	23.6	27.0	9.6	7.3	2.13
	SPRING	25	2.1	2.7	3.5	4.9	6.9	8.1	8.8	12.2	13.3	23.6	47.0	10.2	7.5	2.18
	SUMMER	24	1.3	2.7	4.7	5.1	5.8	6.3	6.7	7.4	8.1	9.6	10.5	6.2	5.7	1.57
	AUTUMN	24	1.7	2.7	4.5	4.8	5.3	6.9	7.8	8.8	10.3	12.2	20.0	7.5	6.5	1.77
	58 61	95	1.3	3.0	4.0	5.0	5.9	6.9	7.7	8.7	10.3	17.0	47.0	8.4	6.7	1.92
WORCESTER	WINTER	26	2.4	3.5	5.3	6.9	7.4	8.2	10.3	10.9	11.9	13.3	42.2	9.9	8.3	1.80
	SPRING	26	1.2	1.9	2.7	4.5	5.8	7.6	8.1	8.5	9.6	11.3	47.9	8.0	5.9	2.20
	SUMMER	27	2.3	2.7	4.9	5.8	6.5	7.0	7.4	7.9	8.5	8.8	20.3	7.1	6.4	1.59
	AUTUMN	24	1.3	2.7	3.6	4.5	6.3	6.9	7.4	8.8	12.8	14.4	35.0	8.6	6.7	2.05
	57 61	103	1.2	2.6	4.0	5.6	6.6	7.4	8.0	8.6	10.7	13.3	47.9	8.4	6.8	1.92
MICHIGAN DEARBORN	WINTER	13	5.3	5.3	7.0	7.4	10.8	11.7	12.2	14.4	15.7	20.0	29.0	12.6	11.3	1.61
	SPRING	10	5.3	5.3	6.3	7.4	8.8	9.6	10.3	12.2	14.4	15.7	14.9	10.0	9.4	1.45
	SUMMER	14	4.8	5.3	6.9	7.1	8.1	8.8	9.3	10.3	12.2	13.7	13.5	9.1	8.7	1.35
	AUTUMN	11	4.6	4.9	5.3	7.4	9.3	10.3	11.3	12.2	13.3	14.4	44.5	12.6	10.3	1.81
	59 61	48	4.6	5.3	6.8	7.3	9.0	9.9	11.0	12.2	13.5	15.7	44.5	11.0	9.9	1.56

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
DETROIT	WINTER	30	2.7	6.3	9.2	10.3	11.3	12.2	13.1	14.1	18.5	20.9	22.4	13.0	11.9	1.58
	SPRING	31	3.6	5.4	5.8	6.2	7.4	9.0	9.6	10.1	14.4	19.0	29.1	10.2	9.0	1.62
	SUMMER	33	3.8	4.5	5.6	6.5	7.0	7.8	8.4	9.1	10.0	12.2	18.8	8.1	7.6	1.45
	AUTUMN	32	3.8	4.5	7.0	8.2	9.1	10.0	11.3	12.9	15.7	20.0	27.3	11.4	10.1	1.65
	57 61	126	2.7	5.3	6.2	7.4	8.5	9.4	10.3	11.9	14.1	18.7	29.1	10.6	9.5	1.61
FLINT	WINTER	13	3.7	3.8	6.3	6.7	7.0	8.8	10.3	12.2	12.9	14.4	19.0	9.5	8.6	1.60
	SPRING	12	4.8	4.9	5.3	6.3	8.1	8.8	9.3	9.8	13.3	14.4	17.4	9.5	8.8	1.51
	SUMMER	13	3.5	3.8	5.6	5.8	6.1	6.9	7.4	8.1	8.8	10.3	13.2	7.2	6.8	1.42
	AUTUMN	14	3.6	3.8	5.3	5.8	6.9	7.4	8.8	10.3	10.9	12.2	20.0	8.6	7.8	1.54
	57 59	52	3.5	4.8	5.4	6.1	6.8	7.6	8.8	9.7	11.7	13.7	20.0	8.7	7.9	1.52
JACKSON	WINTER	11	1.5	1.7	4.2	4.5	4.9	6.3	9.6	10.3	12.2	14.4	14.9	7.3	6.1	1.94
	SPRING	13	3.2	3.0	3.8	4.5	5.3	6.0	6.3	7.4	8.8	12.2	12.3	6.5	5.9	1.59
	SUMMER	13	2.4	2.7	4.8	5.0	5.1	6.3	6.9	7.4	9.6	12.2	12.4	7.0	6.3	1.58
	AUTUMN	13	3.5	3.5	4.5	4.9	5.3	6.7	7.0	7.4	8.1	11.3	11.4	6.7	6.3	1.45
	58 61	50	1.5	3.4	4.3	4.8	5.2	6.0	6.9	8.3	10.0	11.8	14.9	6.9	6.2	1.62
KALAMAZOO	WINTER	11	2.9	3.0	3.2	3.4	3.6	5.3	6.9	7.4	8.1	8.8	10.0	5.5	5.1	1.56
	SPRING	14	.7	.7	3.0	3.2	3.5	3.7	3.8	5.6	6.0	8.8	11.3	4.7	4.0	1.89
	SUMMER	13	1.5	1.5	1.7	2.5	2.7	3.5	3.8	4.5	4.9	7.4	7.6	3.7	3.3	1.68
	AUTUMN	11	2.9	3.2	3.8	4.5	4.9	5.8	6.3	7.9	8.3	8.8	14.8	6.5	5.9	1.59
	57 60	49	.7	2.5	3.0	3.3	3.6	4.5	5.0	5.9	7.4	8.4	14.8	5.0	4.4	1.75
LANSING	WINTER	12	3.2	3.2	3.8	4.3	4.5	5.8	6.3	6.6	7.1	7.4	9.2	5.7	5.5	1.39
	SPRING	12	2.5	2.7	3.2	3.6	3.8	5.3	6.9	7.4	8.8	14.4	17.0	6.7	5.6	1.83
	SUMMER	13	2.3	2.3	3.5	3.8	4.5	5.0	5.3	5.8	6.3	7.4	10.1	5.1	4.7	1.48
	AUTUMN	12	3.6	3.5	3.8	5.3	5.6	6.0	6.3	7.4	8.8	10.3	16.0	6.9	6.3	1.51
	57 60	49	2.3	3.2	3.6	4.2	4.9	5.6	6.2	6.8	7.4	9.3	17.0	6.1	5.5	1.56
SAGINAW	WINTER	13	4.2	4.5	6.7	7.0	7.2	8.1	8.8	10.3	12.2	15.7	15.4	9.0	8.5	1.45
	SPRING	14	4.2	4.2	4.9	5.3	7.4	8.8	9.0	9.6	9.8	10.3	10.4	7.8	7.4	1.42
	SUMMER	12	2.5	2.7	4.8	5.3	5.8	6.3	6.6	6.9	7.4	8.8	10.5	6.3	6.0	1.42
	AUTUMN	13	3.9	4.5	6.3	7.9	8.3	9.2	9.6	9.9	10.3	15.7	16.4	9.3	8.6	1.49
	58 60	52	2.5	4.5	5.2	6.4	7.0	7.6	8.6	9.3	10.2	12.2	16.4	8.1	7.6	1.47
MINNESOTA																
DULUTH	WINTER	18	3.2	3.8	5.3	5.6	6.3	6.9	7.4	8.8	11.3	14.4	15.8	8.1	7.3	1.61
	SPRING	20	1.7	3.2	3.6	4.2	4.7	5.1	5.6	6.3	7.4	8.8	28.0	6.4	5.3	1.74
	SUMMER	20	.8	1.7	3.0	3.4	3.8	4.1	4.4	4.7	5.1	6.9	13.2	4.4	3.8	1.77
	AUTUMN	19	1.6	1.6	2.7	3.8	4.3	5.3	5.8	6.7	7.4	9.6	10.7	5.3	4.6	1.82
	57 61	77	.8	2.7	3.4	3.9	4.4	5.1	5.8	6.7	7.7	10.3	28.0	6.0	5.1	1.80
MINNEAPOLIS	WINTER	27	3.4	4.5	4.9	5.6	6.5	7.2	7.9	10.3	11.4	12.2	30.7	9.1	7.8	1.69
	SPRING	35	1.6	3.2	3.7	4.2	4.8	5.7	6.3	7.9	9.3	13.3	43.1	7.5	6.0	1.86
	SUMMER	31	.9	2.5	3.2	4.0	4.6	5.1	5.6	6.6	7.4	9.9	15.8	5.8	5.0	1.79
	AUTUMN	35	.8	3.2	3.7	4.2	4.8	5.8	6.9	9.1	10.0	14.4	22.2	7.2	5.9	1.99
	57 61	128	.8	3.1	3.8	4.4	5.0	5.8	6.7	8.1	9.7	12.8	43.1	7.3	6.0	1.87
ST PAUL	WINTER	18	2.7	5.3	6.0	6.3	7.0	8.1	9.1	9.7	10.0	14.4	16.8	8.8	8.0	1.56
	SPRING	18	3.4	4.8	5.3	5.8	6.7	7.4	9.6	10.9	11.6	15.7	27.4	9.6	8.4	1.68
	SUMMER	19	5.1	5.6	6.3	6.6	6.9	7.2	7.4	9.2	9.9	11.3	18.4	8.3	7.8	1.37
	AUTUMN	20	3.0	3.8	5.8	6.3	7.9	8.8	9.4	10.0	11.3	20.0	66.7	12.5	9.2	2.01
	58 61	75	2.7	5.1	5.8	6.5	7.0	8.0	9.1	9.8	10.8	15.7	66.7	9.8	8.3	1.67
MISSISSIPPI																
JACKSON	WINTER	27	.8	1.7	2.4	2.7	3.5	6.3	7.4	10.9	13.3	18.5	35.6	8.3	5.5	2.58
	SPRING	32	.8	.9	2.8	3.4	3.8	5.0	5.6	6.7	8.8	12.2	22.0	6.1	4.6	2.24
	SUMMER	29	1.8	3.2	3.9	4.4	5.3	5.8	6.1	6.9	7.8	8.8	16.2	6.1	5.6	1.56
	AUTUMN	30	1.4	2.4	3.3	3.7	4.2	5.3	6.5	7.2	8.8	12.2	44.3	7.5	5.6	2.06
	57 61	118	.8	2.3	3.0	3.6	4.3	5.4	6.4	7.3	8.8	13.3	44.3	7.0	5.3	2.11
MISSOURI																
KANSAS CITY	WINTER	32	4.1	4.5	6.3	7.9	9.3	11.3	14.4	16.4	19.3	23.6	31.9	13.0	11.1	1.79
	SPRING	31	2.8	5.3	5.7	6.2	7.0	8.5	10.8	12.2	13.9	17.0	22.6	9.7	8.6	1.63
	SUMMER	32	3.2	4.9	5.8	6.7	7.4	8.2	9.1	10.0	15.3	20.0	37.4	10.7	9.0	1.75
	AUTUMN	27	3.4	5.5	5.9	6.7	7.7	8.5	9.2	10.3	13.3	18.5	36.3	10.4	9.0	1.67
	57 61	122	2.8	5.1	5.9	6.8	7.7	8.7	10.1	12.2	15.8	20.0	37.4	11.0	9.4	1.72

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ST LOUIS	WINTER	30	6.0	8.8	10.6	11.6	12.9	17.0	18.5	20.0	22.7	26.5	87.5	18.6	15.9	1.69
	SPRING	32	.9	3.2	5.6	6.9	7.6	8.3	10.3	14.4	17.0	23.6	40.9	11.6	9.1	2.12
	SUMMER	31	2.2	4.5	6.9	8.0	8.8	9.5	10.0	10.9	12.9	18.5	27.9	10.5	9.3	1.66
	AUTUMN	31	6.7	8.1	9.6	10.8	11.7	13.3	15.3	18.5	22.4	25.8	29.5	15.2	14.0	1.50
	57 61	124	.9	5.9	7.7	8.7	10.1	11.4	13.1	16.4	19.5	24.8	87.5	13.9	11.7	1.84
MONTANA																
HELENA	WINTER	31		.9	1.6	1.9	2.2	3.0	3.8	4.3	5.3	8.8	13.6	4.1	2.8	2.85
	SPRING	33	.8	.8	.9	1.4	1.5	1.6	1.7	2.0	2.5	3.2	4.0	1.9	1.7	1.62
	SUMMER	33	.8	.8	1.0	1.6	1.7	2.4	2.8	3.1	3.8	4.4	6.0	2.6	2.2	1.83
	AUTUMN	30	.8	1.4	1.6	1.8	2.0	2.4	2.6	3.0	3.4	3.8	8.4	2.6	2.3	1.65
	57 61	127		.8	1.4	1.6	1.8	2.2	2.6	3.0	3.7	4.4	13.6	2.8	2.2	2.04
NEBRASKA																
LINCOLN	WINTER	13	1.6	1.7	3.2	3.5	3.8	4.3	4.5	4.9	5.3	10.3	17.5	5.6	4.7	1.81
	SPRING	15	1.5	2.3	3.2	4.0	4.3	4.9	5.3	6.0	6.3	9.6	10.0	5.1	4.6	1.64
	SUMMER	12	2.3	2.3	3.0	3.4	3.6	3.9	4.2	4.5	5.0	5.3	9.6	4.3	4.0	1.42
	AUTUMN	11	2.4	2.7	3.0	3.2	3.8	5.8	6.3	6.9	7.4	8.8	9.9	5.5	5.0	1.60
	57 60	51	1.5	2.7	3.1	3.5	3.9	4.3	4.8	5.5	6.6	9.1	17.5	5.1	4.5	1.62
OMAHA	WINTER	30	2.4	2.7	5.4	5.9	6.3	9.1	10.0	11.1	12.2	15.3	17.3	8.8	7.7	1.73
	SPRING	31	3.1	3.5	4.0	4.4	5.3	6.5	7.0	7.7	8.5	9.8	17.0	6.6	6.1	1.52
	SUMMER	32	3.4	4.2	4.6	5.1	5.5	6.0	6.6	7.4	8.8	12.2	17.1	7.2	6.5	1.52
	AUTUMN	30	2.5	4.5	5.5	6.1	6.9	8.1	9.6	10.6	11.6	12.9	25.4	8.8	7.9	1.60
	57 61	123	2.4	3.9	4.7	5.4	6.0	6.8	7.9	9.3	10.7	12.9	25.4	7.8	7.0	1.60
NEVADA																
LAS VEGAS	WINTER	18	2.6	4.5	7.4	10.9	12.2	13.3	14.4	16.1	17.0	21.8	30.0	13.7	11.9	1.82
	SPRING	23	3.2	3.8	4.5	4.9	5.3	6.3	7.4	8.1	8.8	9.9	12.2	6.7	6.3	1.46
	SUMMER	24	2.5	4.5	5.1	5.6	6.3	6.6	6.9	7.4	8.1	9.6	10.4	6.7	6.4	1.36
	AUTUMN	25	3.5	4.2	4.5	5.3	6.3	7.9	8.8	9.9	12.2	15.7	16.9	8.6	7.6	1.64
	57 61	90	2.5	4.1	4.8	5.5	6.4	7.2	8.3	9.6	11.6	15.1	30.0	8.6	7.6	1.65
NEW HAMPSHIRE																
MANCHESTER	WINTER	22	3.0	4.0	4.5	5.3	6.3	9.3	10.3	11.6	14.4	20.0	25.8	10.2	8.6	1.81
	SPRING	21	2.2	2.9	3.2	4.0	4.3	5.0	6.3	6.7	7.2	9.6	11.9	5.6	5.1	1.54
	SUMMER	16	2.3	2.7	3.2	4.0	4.3	4.8	5.3	5.6	6.1	6.3	8.7	4.9	4.6	1.42
	AUTUMN	23	2.0	3.2	4.5	4.9	5.3	5.9	6.3	6.9	7.4	10.3	27.1	7.0	6.0	1.70
	58 61	82	2.0	3.0	3.9	4.5	5.0	5.6	6.2	7.1	9.3	12.2	27.1	7.1	6.0	1.72
NEW JERSEY																
ATLANTIC CITY	WINTER	13	2.2	2.3	2.6	2.7	3.0	4.0	4.3	4.5	4.9	6.3	7.4	4.1	3.8	1.48
	SPRING	13	1.0	1.0	1.7	2.2	2.3	2.9	3.0	3.2	3.8	4.9	4.9	2.8	2.6	1.66
	SUMMER	13	2.2	2.3	2.7	2.8	3.0	3.2	3.8	4.5	5.3	8.8	10.9	4.3	3.8	1.62
	AUTUMN	12	.7	.7	.9	1.7	2.4	2.6	2.7	3.2	5.3	6.3	7.3	3.2	2.5	2.14
	58 61	51	.7	1.4	2.2	2.5	2.7	3.0	3.5	4.4	5.0	6.0	10.9	3.6	3.1	1.77
CAMDEN	WINTER	12	4.4	4.5	5.8	7.4	8.8	9.6	10.3	12.9	14.4	17.0	21.4	10.6	9.6	1.60
	SPRING	14	4.7	5.3	7.8	8.1	8.8	9.6	10.3	11.6	12.2	20.0	24.5	11.1	10.2	1.50
	SUMMER	12	5.9	6.3	6.9	7.8	8.1	8.5	8.8	9.3	10.3	12.2	1[illegible].3	8.8	8.7	1.25
	AUTUMN	13	5.8	6.3	7.4	8.8	9.6	11.3	12.2	13.3	14.4	17.0	24.1	11.6	10.8	1.49
	57 60	51	4.4	6.1	7.0	7.8	8.5	9.5	10.3	11.9	13.5	16.1	24.5	10.6	9.8	1.47
EAST ORANGE	WINTER	12	1.8	2.0	2.3	3.8	4.5	10.3	17.0	23.6	26.5	27.9	35.8	14.3	9.0	3.02
	SPRING	11	1.6	1.7	2.0	2.3	2.5	3.2	3.8	7.4	8.8	12.2	15.1	5.4	4.0	2.18
	SUMMER	9	.8	.9	3.0	3.2	6.3	6.9	6.9	7.4	8.8	10.3	14.5	6.5	5.1	2.34
	AUTUMN	8	1.4	1.4	1.7	1.7	2.7	8.8	10.3	12.2	12.2	18.5	19.8	9.0	6.0	2.95
	57 60	40	.8	1.7	2.3	2.8	3.5	6.7	8.3	10.3	16.1	23.6	35.8	9.0	5.9	2.67
ELIZABETH	WINTER	11	3.3	3.8	6.3	8.8	10.8	11.7	12.2	13.3	14.4	17.0	24.8	11.9	10.6	1.71
	SPRING	12	4.5	4.5	7.4	8.0	8.2	8.5	8.8	14.4	18.5	20.0	27.8	12.0	10.5	1.70
	SUMMER	13	3.8	3.8	5.8	6.3	6.9	7.9	8.3	8.8	11.3	14.4	20.1	8.7	7.5	1.59
	AUTUMN	11	.9	.9	7.4	12.2	12.9	14.4	17.0	20.0	23.6	27.9	28.3	15.5	12.2	2.57
	58 60	47	.9	4.5	6.6	7.7	8.5	11.1	12.2	13.8	17.0	21.8	28.3	11.9	10.0	1.89
JERSEY CITY	WINTER	19	8.4	8.8	10.6	11.3	11.9	13.3	14.4	16.1	17.8	19.3	22.0	14.0	13.4	1.35
	SPRING	18	4.9	6.5	7.0	7.2	7.9	8.8	9.4	10.0	10.3	12.2	16.2	9.1	8.5	1.34
	SUMMER	20	6.7	7.9	8.8	9.8	10.8	11.7	12.9	14.4	17.8	19.3	23.8	12.8	12.1	1.42
	AUTUMN	18	6.3	6.9	10.3	10.9	12.2	13.1	14.0	15.3	16.1	18.5	28.0	13.2	12.4	1.46
	57 61	75	4.9	7.1	8.3	9.6	10.6	11.6	12.6	14.4	16.4	18.8	28.0	12.3	11.6	1.44

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEWARK	WINTER	21	3.4	5.3	5.8	6.3	8.8	10.3	12.2	13.7	17.0	21.2	22.0	11.4	10.1	1.70
	SPRING	26	3.1	4.9	5.8	7.0	7.6	8.3	9.3	10.3	17.8	19.3	23.6	10.4	9.0	1.70
	SUMMER	26	4.6	5.4	5.7	6.2	6.6	7.4	9.2	9.9	11.3	12.2	22.7	9.0	8.3	1.49
	AUTUMN	23	.8	3.8	5.3	6.3	8.1	9.6	10.3	13.3	15.7	21.8	56.2	12.2	9.0	2.31
	58 61	96	.8	4.9	5.7	6.4	7.6	8.8	9.9	11.7	15.1	19.6	56.2	10.7	9.0	1.80
NEW MEXICO																
ALBUQUERQUE	WINTER	26	5.0	8.1	12.2	15.3	16.1	18.5	23.6	25.0	27.2	30.4	78.4	21.6	18.3	1.80
	SPRING	32	2.0	3.2	6.0	7.7	8.5	9.4	10.3	11.3	13.3	16.1	18.0	9.6	8.5	1.69
	SUMMER	29	3.9	5.3	5.9	6.9	9.1	10.0	11.3	13.1	14.4	16.4	21.7	10.4	9.5	1.58
	AUTUMN	31	3.6	5.0	7.4	9.3	10.9	13.7	19.0	25.0	29.2	32.9	52.0	17.7	14.1	2.02
	57 61	118	2.0	5.3	6.9	8.5	10.0	11.7	14.0	16.4	20.0	27.4	78.4	14.6	11.8	1.91
NEW YORK																
ALBANY	WINTER	12	1.5	1.5	1.6	1.7	2.1	2.2	2.2	2.3	3.8	6.9	7.1	3.0	2.6	1.71
	SPRING	11	1.4	1.4	1.6	1.7	2.2	2.7	3.8	4.0	4.3	4.5	5.2	3.0	2.7	1.58
	SUMMER	12	1.6	1.7	2.0	4.2	4.5	4.8	5.0	5.3	6.3	8.8	10.4	4.9	4.3	1.73
	AUTUMN	13	.8	.8	1.0	2.0	2.4	2.7	3.2	5.8	6.3	8.8	14.4	4.3	3.0	2.45
	60 61	48	.8	1.4	1.7	2.0	2.3	2.9	3.9	4.7	5.6	7.0	14.4	3.8	3.1	1.93
BINGHAMTON	WINTER	23	3.6	4.0	4.8	5.3	6.0	7.0	7.7	8.2	8.8	15.7	29.7	8.3	7.2	1.66
	SPRING	25	2.9	4.2	4.7	5.3	6.3	7.1	7.9	9.3	10.3	13.3	17.3	7.6	7.0	1.54
	SUMMER	27	2.5	2.9	3.0	3.5	4.5	5.0	5.3	5.8	6.3	6.9	7.5	4.9	4.6	1.39
	AUTUMN	26	1.5	3.0	3.8	4.3	4.8	5.8	7.0	8.1	9.8	11.3	16.3	6.7	5.8	1.74
	57 61	101	1.5	3.1	4.0	4.6	5.1	5.9	6.7	7.5	8.8	11.4	29.7	6.8	6.0	1.63
BUFFALO	WINTER	12	1.0	1.0	2.0	3.4	3.5	3.7	3.8	8.1	9.6	10.3	13.8	5.8	4.5	2.20
	SPRING	12	2.7	2.7	3.8	5.0	5.3	5.6	5.8	6.1	8.8	10.3	12.2	6.1	5.7	1.51
	SUMMER	12	2.0	2.0	2.7	3.0	3.2	4.5	4.9	5.3	7.4	8.8	15.8	5.5	4.6	1.78
	AUTUMN	14	2.3	2.3	3.2	3.4	3.8	4.9	5.3	6.9	7.4	12.2	13.9	5.9	5.2	1.68
	59 61	50	1.0	2.4	3.0	3.4	3.8	5.0	5.6	6.7	8.2	10.3	15.8	5.8	5.0	1.78
ELMIRA	WINTER	18	1.9	2.7	3.5	3.7	4.0	4.3	5.6	6.3	6.9	8.1	19.3	5.7	4.9	1.68
	SPRING	20	1.3	2.3	3.2	3.8	4.0	4.3	4.5	5.0	6.3	8.1	11.2	4.8	4.3	1.63
	SUMMER	18	.8	1.2	2.7	3.5	4.2	4.9	5.5	5.9	6.1	7.4	9.4	4.8	4.1	1.91
	AUTUMN	20	1.4	3.5	4.2	4.8	5.3	6.0	6.9	8.1	9.6	12.2	25.3	7.4	6.2	1.80
	59 61	76	.8	2.4	3.4	3.9	4.2	4.8	5.6	6.1	7.4	9.2	25.3	5.7	4.8	1.78
GLEN COVE	WINTER	18	1.5	1.7	3.2	4.0	4.3	4.9	6.3	10.3	14.4	20.0	36.0	9.5	6.2	2.53
	SPRING	18	2.3	2.3	3.0	3.1	3.5	4.5	6.9	8.1	8.8	20.0	23.0	7.7	5.7	2.13
	SUMMER	15	1.5	2.3	2.7	3.5	3.8	4.5	5.3	8.1	8.8	14.4	21.4	6.5	5.0	2.08
	AUTUMN	17	2.9	3.0	3.2	3.6	4.2	6.3	6.9	8.1	17.0	27.9	37.8	10.5	7.0	2.36
	59 61	68	1.5	2.5	3.0	3.5	4.0	4.7	6.6	8.2	12.2	21.2	37.8	8.6	6.0	2.26
MASSENA	WINTER	16	1.3	1.8	1.9	2.0	2.4	2.7	4.2	4.5	6.3	7.4	13.1	4.3	3.5	1.89
	SPRING	19	1.3	1.4	2.1	2.2	2.7	3.2	3.5	4.8	5.3	8.8	9.7	3.9	3.3	1.83
	SUMMER	15	1.4	1.4	2.3	2.8	3.0	3.2	3.8	4.2	4.3	5.3	5.4	3.3	3.1	1.52
	AUTUMN	20	1.3	1.3	2.1	2.2	2.5	3.0	3.5	4.5	5.3	8.1	9.5	3.9	3.2	1.84
	59 61	70	1.3	1.4	2.0	2.3	2.6	3.1	3.7	4.4	5.2	7.8	13.1	3.9	3.3	1.76
MT VERNON	WINTER	6	4.1	4.5	4.5	5.3	5.3	7.4	12.2	12.2	15.7	15.7	14.9	9.3	8.2	1.76
	SPRING	6	2.6	2.7	2.7	5.8	5.8	6.3	8.8	8.8	11.3	11.3	11.7	7.5	6.7	1.76
	SUMMER	6	6.3	6.3	6.3	8.8	8.8	10.3	12.2	12.2	14.4	14.4	19.7	11.7	10.9	1.49
	AUTUMN	7	4.9	5.3	5.3	5.8	6.3	8.8	8.8	14.4	20.0	20.0	22.4	11.5	9.8	1.83
	61 61	25	2.6	4.9	5.5	6.1	7.4	8.8	10.8	12.2	14.4	18.5	22.4	10.1	8.8	1.72
NEW ROCHELLE	WINTER	18	3.5	4.8	5.3	6.3	7.4	10.3	14.4	16.1	17.0	32.9	81.9	16.5	11.3	2.29
	SPRING	20	1.4	2.7	4.3	4.9	6.3	7.9	8.8	10.3	12.2	14.4	28.4	8.7	7.0	1.98
	SUMMER	19	4.4	4.5	5.3	7.4	8.0	8.5	8.8	9.8	10.9	12.2	37.5	9.7	8.4	1.66
	AUTUMN	16	3.6	4.5	6.3	8.3	8.8	11.3	14.4	20.0	23.6	25.8	28.6	14.1	11.8	1.91
	59 61	73	1.4	4.2	5.1	6.6	7.9	8.8	10.3	12.0	15.1	25.8	81.9	12.1	9.3	2.00
NEW YORK	WINTER	33	5.8	9.2	10.6	11.6	12.6	14.0	15.4	17.0	20.0	27.9	33.1	15.9	14.6	1.50
	SPRING	33	4.8	7.9	8.8	9.7	10.6	11.7	12.6	14.0	17.0	19.4	35.8	13.1	12.1	1.48
	SUMMER	31	3.6	6.7	8.1	9.8	11.3	12.8	13.6	14.4	20.0	25.8	56.0	14.9	12.8	1.71
	AUTUMN	30	5.9	7.4	8.2	9.2	10.3	13.0	13.9	15.7	18.5	21.2	32.1	13.6	12.5	1.51
	57 61	127	3.6	7.7	8.9	10.1	11.5	12.8	13.7	15.7	18.7	23.6	56.0	14.4	13.0	1.55

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter												Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NIAGARA FALLS	WINTER	6	4.0	4.0	4.0	4.3	4.3	4.5	10.3	10.3	12.2	12.2	89.6	20.3	9.1	3.32
	SPRING	7	1.8	2.0	2.0	2.3	4.5	5.3	5.3	8.8	15.7	15.7	15.7	7.4	5.5	2.34
	SUMMER	4	3.0	.1	3.2	3.2	3.8	3.8	3.8	5.3	5.3	6.3	5.4	4.3	4.2	1.33
	AUTUMN	6	4.3	4.2	4.2	4.5	4.5	4.9	5.3	5.3	6.9	6.9	7.0	5.5	5.4	1.23
	59 59	23	1.8	2.3	3.9	4.2	4.4	4.9	5.3	6.9	8.8	15.7	89.6	9.7	6.0	2.20
ROCHESTER	WINTER	23	4.0	4.5	5.3	6.0	6.5	7.0	7.4	9.6	10.9	14.4	18.9	8.2	7.5	1.55
	SPRING	26	2.8	3.8	4.8	6.3	8.1	9.4	10.3	11.1	12.2	14.4	46.1	10.5	8.5	1.87
	SUMMER	27	3.8	4.8	5.3	5.8	6.3	6.9	7.2	8.1	9.6	10.9	13.3	7.4	7.1	1.36
	AUTUMN	25	3.6	4.3	4.8	5.6	6.3	7.0	7.4	8.2	8.8	9.9	15.4	7.2	6.8	1.40
	58 61	101	2.8	4.3	5.0	5.8	6.5	7.2	8.1	9.3	10.5	12.2	46.1	8.3	7.4	1.56
SCHENECTADY	WINTER	16	.8	2.3	2.5	3.2	3.3	3.6	3.8	4.5	5.8	6.3	13.8	4.5	3.8	1.86
	SPRING	19	2.0	2.4	2.5	2.6	2.9	3.2	3.4	3.7	4.2	4.8	5.3	3.4	3.2	1.31
	SUMMER	18	1.6	1.6	2.0	2.7	3.2	3.5	3.8	4.5	5.3	6.3	18.8	4.5	3.6	1.86
	AUTUMN	16	1.7	1.7	2.5	3.2	3.8	4.5	5.3	5.6	6.3	10.3	76.5	10.0	5.2	2.64
	57 60	69	.8	1.9	2.5	2.8	3.2	3.5	3.8	4.5	5.3	6.3	76.5	5.5	3.9	1.94
SYRACUSE	WINTER	24	2.8	3.0	3.6	4.2	5.0	5.6	6.3	7.4	11.3	14.4	24.3	7.5	6.2	1.79
	SPRING	26	3.0	4.9	6.3	7.9	8.3	9.1	10.0	10.9	12.9	14.4	21.2	9.8	8.9	1.58
	SUMMER	26	3.7	5.3	5.7	6.3	7.4	8.8	9.6	10.0	11.1	11.8	17.3	8.8	8.2	1.47
	AUTUMN	27	2.9	5.3	6.0	6.7	7.4	8.8	10.6	11.4	12.2	17.0	28.3	10.2	9.0	1.65
	57 61	103	2.8	4.0	5.3	6.1	7.1	8.3	9.5	10.6	11.8	15.1	28.3	9.1	8.0	1.65
TROY	WINTER	17	1.7	2.7	2.9	3.2	3.5	3.8	5.6	6.1	7.4	7.9	8.7	4.8	4.3	1.59
	SPRING	19	.8	1.7	2.8	3.0	3.1	3.8	4.2	4.8	5.3	8.1	10.3	4.3	3.7	1.79
	SUMMER	15	1.6	2.4	2.5	2.7	2.9	3.2	3.8	4.2	4.3	5.3	6.1	3.4	3.3	1.41
	AUTUMN	17	2.6	2.7	3.8	4.7	5.1	5.6	6.0	6.9	8.8	10.3	12.7	6.2	5.6	1.58
	59 61	68	.8	2.5	2.8	3.0	3.5	4.1	4.8	5.5	6.2	8.1	12.7	4.7	4.2	1.66
UTICA	WINTER	24	1.4	2.2	2.8	3.1	3.5	3.8	4.5	5.3	6.3	7.4	13.9	4.8	4.2	1.67
	SPRING	25	1.6	2.7	3.2	3.8	4.5	5.1	5.8	7.4	8.3	14.4	24.8	6.5	5.3	1.88
	SUMMER	24	1.7	2.7	3.8	4.5	5.5	5.9	6.3	8.5	10.3	12.2	16.4	6.9	6.0	1.74
	AUTUMN	26	1.8	2.6	3.2	3.8	4.5	5.8	8.1	8.8	12.2	14.4	17.1	7.4	6.1	1.91
	57 61	99	1.4	2.5	3.1	3.7	4.4	5.2	5.9	7.5	8.8	12.6	24.8	6.4	5.4	1.82
NORTH CAROLINA																
ASHEVILLE	WINTER	13	2.7	2.7	5.3	6.3	7.4	11.3	12.2	15.3	16.1	23.6	24.4	11.5	9.6	1.94
	SPRING	12	3.1	3.2	7.4	8.8	10.3	11.3	12.2	14.4	20.0	27.9	34.8	13.4	11.2	1.89
	SUMMER	14	3.5	3.8	4.3	4.5	5.0	5.3	6.3	7.0	7.4	10.3	11.1	6.2	5.8	1.42
	AUTUMN	12	5.8	5.6	6.0	7.4	8.8	9.3	9.8	10.3	17.0	20.0	22.8	10.9	9.8	1.57
	58 60	51	2.7	4.3	5.1	6.1	7.0	8.8	10.0	11.6	15.4	20.0	34.8	10.3	8.7	1.79
CHARLOTTE	WINTER	33	4.6	8.8	14.4	15.5	16.6	20.7	22.9	27.9	31.7	50.0	66.1	24.6	20.7	1.82
	SPRING	32	3.0	4.9	7.0	8.2	9.3	10.6	11.6	13.3	18.5	27.9	31.6	12.6	10.7	1.79
	SUMMER	31	2.3	2.7	4.0	4.5	4.8	5.1	5.5	6.0	6.7	8.8	9.7	5.4	5.1	1.43
	AUTUMN	32	3.6	5.0	6.9	9.3	10.9	12.6	14.0	17.0	26.5	32.9	95.3	18.0	13.4	2.09
	57 61	128	2.3	4.6	5.2	6.8	8.6	10.9	13.5	16.5	22.4	30.7	95.3	15.3	11.2	2.16
GREENSBORO	WINTER	13	3.5	3.5	6.3	6.9	7.4	8.8	9.3	9.8	10.3	12.2	12.3	8.3	7.8	1.49
	SPRING	14	2.5	2.7	4.5	4.9	5.6	6.0	6.3	10.3	12.2	17.0	28.2	9.0	7.3	1.94
	SUMMER	10	2.0	2.0	3.2	3.4	3.6	3.8	4.5	5.8	6.3	7.4	13.3	5.1	4.5	1.70
	AUTUMN	11	3.6	3.8	4.5	5.3	6.3	7.4	8.1	8.8	9.6	10.3	14.0	7.4	6.9	1.49
	58 61	48	2.0	3.4	3.8	4.8	5.7	6.5	7.4	9.0	10.0	12.9	28.2	7.7	6.6	1.72
RALEIGH	WINTER	12	5.1	4.9	5.3	10.8	11.3	11.7	12.2	12.9	14.4	17.0	24.8	12.0	11.0	1.56
	SPRING	13	.3	.3	3.8	4.5	4.8	5.3	5.6	6.0	6.3	10.3	11.8	5.5	4.3	2.53
	SUMMER	11	3.0	3.0	3.2	3.8	4.0	4.5	4.7	4.9	5.1	5.3	5.4	4.3	4.2	1.21
	AUTUMN	13	2.5	2.7	4.5	4.9	5.3	6.9	7.4	8.1	8.8	14.4	18.7	7.5	6.4	1.76
	59 61	49	.3	3.0	4.1	4.6	5.0	5.5	6.3	8.3	11.1	13.3	24.8	7.4	6.0	2.03
WINSTON SALEM	WINTER	12	4.9	5.3	6.3	14.4	17.0	18.5	20.0	21.8	32.9	38.9	59.8	21.8	17.5	2.04
	SPRING	14	4.5	4.5	5.3	5.8	8.8	10.3	11.3	14.4	17.0	23.6	36.6	12.5	10.2	1.91
	SUMMER	14	2.2	2.3	3.8	4.9	5.8	6.3	6.7	7.4	8.1	10.3	12.5	6.4	5.9	1.55
	AUTUMN	11	1.2	1.2	2.0	6.3	6.9	12.2	13.3	14.4	17.0	20.0	22.9	10.5	7.9	2.50
	57 60	51	1.2	3.8	5.1	6.0	7.0	9.6	12.2	14.4	18.5	22.7	59.8	12.6	9.5	2.17

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NORTH DAKOTA																
BISMARCK	WINTER	28	1.7	2.3	2.5	2.7	3.0	3.4	3.8	4.3	6.3	7.4	14.3	4.3	3.8	1.64
	SPRING	32	.8	1.6	1.9	2.7	2.9	3.1	3.4	3.7	4.3	5.8	10.9	3.5	3.1	1.64
	SUMMER	32	1.6	2.4	2.6	3.4	3.8	4.1	4.4	4.8	5.8	7.0	8.4	4.4	4.0	1.53
	AUTUMN	34	1.0	1.6	2.0	2.7	3.3	3.6	4.0	5.3	5.9	7.4	9.6	4.1	3.5	1.74
	57 61	126	.8	1.7	2.4	2.8	3.1	3.5	4.0	4.4	5.6	6.9	14.3	4.1	3.6	1.64
OHIO																
AKRON	WINTER	16	3.1	3.2	4.5	6.3	6.9	9.6	12.2	13.3	17.0	20.0	40.0	11.9	9.3	2.03
	SPRING	21	2.9	3.2	4.5	5.0	6.3	7.4	9.8	11.3	17.0	23.6	34.1	10.9	8.4	2.05
	SUMMER	20	4.2	5.6	6.3	6.9	7.4	7.8	8.2	8.6	10.3	14.4	18.5	8.9	8.3	1.43
	AUTUMN	19	3.4	4.2	5.3	8.8	10.3	11.3	11.7	14.4	15.7	17.0	20.9	11.5	10.1	1.73
	58 61	76	2.9	4.1	5.1	6.5	7.4	8.6	10.1	11.9	15.1	19.0	40.0	10.7	9.0	1.81
CANTON	WINTER	19	5.9	8.8	10.3	12.2	13.7	15.7	17.0	20.0	23.6	25.8	27.0	16.3	15.0	1.56
	SPRING	21	6.7	7.4	8.8	9.8	11.3	13.7	15.7	18.5	21.2	23.6	31.4	14.9	13.6	1.55
	SUMMER	19	4.9	6.3	7.4	8.1	8.8	9.6	9.9	10.9	12.2	14.4	15.7	9.8	9.4	1.35
	AUTUMN	19	6.7	8.1	9.6	10.9	12.2	14.4	15.1	16.4	23.6	26.5	40.0	15.6	14.0	1.59
	57 61	78	4.9	7.4	8.6	9.6	10.9	12.4	14.2	16.2	20.0	24.7	40.0	14.2	12.8	1.56
CINCINNATI	WINTER	30	3.5	6.0	7.9	8.6	9.6	10.8	12.2	15.1	17.0	20.0	47.9	13.2	11.4	1.69
	SPRING	28	2.2	4.8	5.2	6.4	6.9	7.3	9.1	10.0	10.9	14.4	15.4	8.4	7.7	1.55
	SUMMER	33	2.1	3.2	6.0	6.6	7.0	7.5	8.0	8.4	8.8	10.3	17.9	7.7	7.1	1.54
	AUTUMN	31	2.2	4.9	6.3	6.8	7.2	8.5	10.3	15.3	18.5	22.4	50.0	12.5	9.9	1.94
	57 61	122	2.1	4.9	6.2	6.9	7.5	8.3	9.2	10.6	14.4	18.0	50.0	10.4	8.8	1.74
CLEVELAND	WINTER	33	3.5	6.6	7.8	8.8	10.3	11.6	13.3	15.7	17.8	21.2	24.8	12.8	11.6	1.57
	SPRING	32	2.0	5.3	6.7	7.4	8.8	9.6	10.3	14.4	15.9	17.0	49.8	12.1	10.2	1.79
	SUMMER	32	1.9	5.3	6.9	8.8	9.4	10.1	11.3	12.6	14.4	17.0	29.1	11.3	10.0	1.70
	AUTUMN	29	5.7	7.0	8.8	9.7	10.5	11.3	11.7	12.9	17.0	20.0	31.8	12.8	11.8	1.49
	57 61	126	1.9	6.4	7.3	8.7	9.6	10.6	11.9	13.9	16.1	19.3	49.8	12.2	10.8	1.64
COLUMBUS	WINTER	31	3.4	6.3	7.6	8.2	8.8	10.5	11.3	12.0	15.1	17.0	57.4	12.6	10.6	1.71
	SPRING	32	4.0	4.3	5.3	6.7	7.2	8.0	8.8	9.7	11.1	12.2	19.5	8.6	7.9	1.51
	SUMMER	30	4.1	4.8	5.5	6.0	6.9	7.9	8.6	9.3	10.0	12.2	14.0	8.0	7.6	1.40
	AUTUMN	34	1.7	4.7	5.3	6.3	8.8	10.3	12.2	14.4	18.2	23.6	36.9	12.2	9.9	1.94
	57 61	127	1.7	4.7	5.7	6.8	7.8	8.8	9.9	11.1	13.0	17.0	57.4	10.4	9.0	1.69
DAYTON	WINTER	22	3.7	5.3	6.3	7.1	7.6	8.1	8.6	9.6	12.9	14.4	23.7	9.5	8.6	1.53
	SPRING	23	3.1	3.5	5.3	6.0	6.5	7.2	7.9	8.8	9.8	13.3	16.2	7.7	7.1	1.53
	SUMMER	27	4.4	5.6	6.1	7.0	7.8	8.3	8.6	9.8	11.3	12.2	15.1	8.6	8.1	1.40
	AUTUMN	26	2.3	4.5	5.3	6.1	6.9	8.8	12.2	13.7	17.0	20.0	35.0	11.5	9.3	1.92
	58 61	98	2.3	4.7	5.8	6.5	7.2	8.0	8.7	10.2	12.4	14.9	35.0	9.3	8.3	1.61
HAMILTON	WINTER	13	4.5	4.5	7.4	7.9	8.3	10.3	11.3	12.2	14.4	32.9	37.9	13.5	11.1	1.85
	SPRING	12	1.5	1.7	3.2	4.5	5.3	7.4	8.8	10.3	14.4	17.0	30.9	9.3	6.9	2.30
	SUMMER	14	3.1	3.2	6.0	6.3	6.7	7.0	7.2	8.1	8.8	18.5	20.0	8.6	7.7	1.61
	AUTUMN	13	4.7	4.9	8.8	9.3	9.8	11.3	12.2	14.4	15.7	32.9	34.5	13.5	11.4	1.78
	59 61	52	1.5	4.2	5.6	6.9	7.6	8.6	10.0	11.6	15.3	23.6	37.9	11.2	9.1	1.91
LORAIN	WINTER	12	1.7	1.7	2.0	3.0	3.2	9.6	10.3	12.2	18.5	20.0	53.3	12.2	7.2	2.98
	SPRING	13	2.8	3.2	4.9	5.3	6.3	8.1	8.8	9.2	9.6	10.3	11.0	7.3	6.9	1.50
	SUMMER	13	2.9	3.2	4.3	4.5	5.6	6.3	6.9	7.4	8.1	11.3	12.1	6.6	6.1	1.51
	AUTUMN	14	1.9	1.9	3.0	3.2	5.3	5.6	6.0	7.4	9.6	12.2	20.6	6.9	5.6	1.94
	57 60	52	1.7	2.7	3.1	4.7	5.6	6.3	7.8	9.2	10.3	12.2	53.3	8.2	6.4	1.97
SPRINGFIELD	WINTER	13	2.4	2.7	4.5	5.3	6.7	7.4	8.8	12.2	13.3	20.0	27.2	9.9	8.0	1.99
	SPRING	13	3.2	3.2	4.2	4.5	5.6	6.3	7.4	8.8	10.3	12.2	26.2	8.3	7.0	1.76
	SUMMER	11	3.6	3.5	3.8	5.8	6.3	8.0	8.2	8.5	8.8	10.3	13.7	7.4	6.9	1.49
	AUTUMN	13	5.4	5.6	6.3	6.7	7.0	8.1	8.8	10.3	12.2	17.0	34.9	10.8	9.2	1.67
	58 60	50	2.4	3.7	5.3	5.9	6.6	7.4	8.2	9.3	11.7	14.4	34.9	9.2	7.8	1.74
TOLEDO	WINTER	12	3.2	3.2	3.8	6.3	7.4	8.8	10.3	11.3	14.4	17.0	25.0	10.1	8.6	1.82
	SPRING	14	3.8	3.5	4.5	5.6	6.3	6.9	7.4	8.3	8.8	12.2	13.6	7.2	6.7	1.47
	SUMMER	11	2.9	3.2	3.5	3.8	4.2	4.9	5.3	6.3	7.4	12.2	13.2	6.0	5.4	1.58
	AUTUMN	13	3.9	4.0	4.5	6.3	7.4	8.3	8.8	10.3	11.3	20.0	23.4	9.6	8.3	1.71
	57 59	50	2.9	3.6	4.2	5.3	6.0	7.0	8.0	9.3	11.3	13.7	25.0	8.2	7.2	1.67
YOUNGSTOWN	WINTER	30	4.6	6.9	9.2	10.3	12.8	14.4	16.0	17.6	19.4	23.6	61.2	16.4	13.9	1.75
	SPRING	35	3.5	4.9	5.8	7.4	8.5	9.4	10.1	11.4	13.3	18.0	51.3	10.8	9.3	1.66
	SUMMER	31	3.5	4.3	4.7	5.1	5.5	6.3	8.1	9.2	10.3	15.1	17.0	7.8	7.2	1.53
	AUTUMN	34	3.6	4.3	6.3	7.4	10.3	13.3	15.3	21.8	27.9	41.2	49.0	17.4	13.3	2.13
	57 61	130	3.5	4.7	5.6	7.0	8.8	9.9	11.8	14.6	17.0	23.6	61.2	13.1	10.5	1.88

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
OKLAHOMA																
OKLAHOMA CITY	WINTER	17	2.8	3.5	3.8	5.6	6.3	7.4	7.9	8.8	10.3	11.3	15.3	7.4	6.8	1.56
	SPRING	17	3.9	4.5	4.8	5.3	6.3	7.7	8.0	8.5	10.3	11.3	13.2	7.4	6.9	1.46
	SUMMER	20	3.3	3.8	4.9	5.6	6.1	6.9	7.6	8.1	8.6	10.3	13.2	7.1	6.6	1.45
	AUTUMN	19	1.9	4.0	4.5	5.6	6.3	6.7	7.0	7.4	8.1	8.8	14.5	6.6	6.1	1.53
	58 61	73	1.9	3.9	4.8	5.6	6.1	7.0	7.6	8.2	8.7	11.3	15.3	7.1	6.6	1.49
TULSA	WINTER	14	2.2	2.3	3.2	3.8	4.0	4.2	4.3	4.5	5.3	6.3	13.6	4.7	4.2	1.54
	SPRING	20	.8	.9	1.6	1.7	2.3	2.5	2.6	3.5	4.2	5.3	8.2	2.9	2.5	1.78
	SUMMER	13	.8	.8	1.5	1.6	1.6	2.0	2.5	2.7	3.8	4.5	5.4	2.5	2.2	1.78
	AUTUMN	17	.8	1.7	2.0	2.4	2.6	2.7	2.9	3.2	4.9	5.3	10.0	3.4	2.9	1.77
	57 61	64	.8	1.4	1.7	2.3	2.5	2.7	3.3	4.0	4.4	5.8	13.6	3.4	2.8	1.79
OREGON																
EUGENE	WINTER	4	7.5	.1	8.8	8.8	17.0	17.0	17.0	18.5	18.5	20.0	19.4	15.1	14.2	1.54
	SPRING	7	3.9	4.5	4.5	4.9	5.3	9.6	9.6	10.3	14.4	14.4	15.6	9.1	8.0	1.74
	SUMMER	6	8.2	8.1	8.1	8.8	8.8	10.3	12.2	12.2	15.7	15.7	16.7	11.8	11.3	1.37
	AUTUMN	5	6.3	6.3	6.3	10.3	10.3	20.0	20.0	25.8	25.8	27.9	27.8	17.4	15.0	1.90
	61 61	22	3.9	4.9	6.3	8.8	9.6	10.3	14.4	15.7	18.0	20.0	27.8	12.8	11.3	1.71
MEDFORD	WINTER	5	6.0	6.3	6.3	23.6	23.6	54.1	54.1	63.9	63.9	88.9	86.3	46.1	32.9	2.93
	SPRING	6	8.8	8.8	8.8	14.4	14.4	17.0	20.0	20.0	23.6	23.6	34.0	18.2	16.6	1.59
	SUMMER	6	3.8	3.8	3.8	5.3	5.3	7.4	8.8	8.8	10.3	10.3	19.4	8.7	7.5	1.77
	AUTUMN	5	9.1	10.3	10.3	14.4	14.4	27.9	27.9	32.9	32.9	54.1	50.9	26.1	21.7	2.02
	61 61	22	3.8	5.3	7.4	9.6	13.3	17.0	20.0	23.6	38.9	54.1	86.3	23.7	16.6	2.38
PORTLAND	WINTER	33	1.7	2.7	3.5	4.5	6.3	10.8	12.2	13.9	18.5	30.4	58.8	12.8	8.7	2.46
	SPRING	31	.8	1.6	3.0	3.8	4.5	5.8	6.6	7.4	10.3	14.4	20.6	6.9	5.4	2.14
	SUMMER	32	.8	1.7	3.0	3.5	4.0	4.8	5.6	6.3	7.2	8.3	12.2	5.2	4.5	1.81
	AUTUMN	31	1.3	3.8	6.9	7.9	9.2	10.7	11.8	14.4	19.3	27.9	43.8	13.5	10.6	2.13
	57 61	127	.8	2.6	3.3	4.3	5.6	6.9	8.3	10.8	13.3	19.6	58.8	9.6	6.9	2.29
PENNSYLVANIA																
ALLENTOWN	WINTER	13	2.2	2.3	3.2	5.8	6.3	8.8	12.2	13.3	14.4	20.0	30.7	10.7	8.2	2.24
	SPRING	12	2.9	3.2	5.3	7.9	8.3	8.8	10.3	10.9	12.2	17.0	27.1	10.4	9.0	1.75
	SUMMER	13	3.7	3.8	6.3	6.7	7.0	8.8	9.3	9.8	10.3	12.2	12.8	8.1	7.7	1.42
	AUTUMN	13	2.9	3.2	5.3	6.3	8.1	9.3	9.8	10.3	12.2	20.0	22.6	10.3	8.8	1.79
	59 61	51	2.2	3.2	5.3	6.3	7.6	8.8	9.9	11.1	12.9	18.0	30.7	9.9	8.4	1.79
BETHLEHEM	WINTER	5	5.8	6.3	6.3	8.8	8.8	9.3	9.3	9.8	9.8	10.3	10.2	8.7	8.5	1.25
	SPRING	7	4.4	4.5	4.5	5.3	8.1	8.8	8.8	10.3	12.2	12.2	19.6	9.2	8.2	1.65
	SUMMER	7	4.8	5.3	5.3	6.3	7.4	8.8	8.8	11.3	12.2	12.2	13.5	8.7	8.2	1.45
	AUTUMN	6	6.7	7.4	7.4	8.1	8.1	8.8	12.2	12.2	13.3	13.3	14.4	10.5	10.2	1.35
	61 61	25	4.4	5.3	6.3	7.6	8.1	8.8	9.6	10.8	11.7	13.7	19.6	9.3	8.7	1.44
ERIE	WINTER	5	2.7	2.7	2.7	4.5	4.5	7.4	7.4	8.8	8.8	10.3	10.0	6.3	5.7	1.70
	SPRING	7	3.4	3.4	3.4	3.6	3.8	5.3	5.3	5.8	6.3	6.3	10.2	5.2	4.8	1.48
	SUMMER	6	3.7	3.8	3.8	4.5	4.5	5.3	6.3	6.3	7.4	7.4	8.7	5.7	5.5	1.41
	AUTUMN	4	3.7	.1	3.8	3.8	7.4	7.4	7.4	8.8	8.8	12.2	10.5	7.3	6.8	1.57
	61 61	22	2.7	3.3	3.6	4.2	4.9	5.6	6.3	7.0	8.3	9.6	10.5	6.0	5.5	1.51
HARRISBURG	WINTER	11	2.8	3.2	3.8	4.5	5.3	7.4	10.3	17.0	18.5	20.0	34.1	11.3	8.4	2.22
	SPRING	11	4.7	4.9	5.3	5.8	6.3	6.7	7.0	7.2	7.4	12.2	13.7	7.3	6.9	1.38
	SUMMER	15	3.8	4.5	4.8	5.3	5.6	6.3	6.7	7.4	8.8	12.2	19.6	7.2	6.5	1.51
	AUTUMN	13	2.8	3.2	5.3	6.3	7.4	10.3	12.9	13.7	14.4	23.6	32.9	12.0	9.7	2.03
	58 60	50	2.8	3.8	4.8	5.4	6.2	6.7	7.3	9.9	13.3	18.0	34.1	9.4	7.8	1.80
JOHNSTOWN	WINTER	8	6.1	6.3	10.3	10.3	12.2	15.7	17.0	20.0	20.0	27.9	39.4	17.2	14.9	1.77
	SPRING	14	5.4	6.3	8.8	12.2	14.4	17.0	21.8	25.8	27.9	38.9	46.2	20.2	16.9	1.91
	SUMMER	10	5.8	6.3	6.9	7.4	8.8	9.3	9.8	10.3	11.3	12.2	15.1	9.3	8.9	1.34
	AUTUMN	12	1.5	1.7	7.4	8.3	8.8	11.3	12.2	14.4	17.0	32.9	36.5	13.7	10.7	2.25
	59 61	44	1.5	6.3	7.7	8.8	10.6	11.9	14.4	16.6	23.6	34.9	46.2	15.4	12.6	1.93
PHILADELPHIA	WINTER	32	2.1	5.8	7.6	8.6	10.3	11.7	14.4	16.4	20.0	27.9	29.9	13.9	11.9	1.81
	SPRING	30	4.8	5.3	6.7	7.6	8.1	8.6	9.8	11.3	14.4	18.5	33.6	10.6	9.5	1.59
	SUMMER	29	3.8	6.0	7.4	7.9	8.3	8.8	9.1	9.6	10.0	11.3	15.4	8.9	8.6	1.32
	AUTUMN	32	4.3	6.3	9.0	10.0	12.5	13.5	14.4	17.8	21.8	26.5	31.2	14.9	13.3	1.64
	·57 61	123	2.1	5.9	7.5	8.2	8.9	9.9	11.3	13.7	16.7	22.2	33.6	12.2	10.7	1.65

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PITTSBURGH	WINTER	30	4.4	5.6	6.3	7.1	8.3	9.6	10.9	12.9	17.0	35.9	109.6	16.7	11.6	2.10
	SPRING	33	4.3	5.3	7.4	8.8	10.6	11.9	12.9	14.0	16.1	32.9	53.8	14.8	12.1	1.84
	SUMMER	31	2.1	3.8	6.0	7.0	8.1	10.3	12.2	14.4	17.0	21.8	23.9	11.2	9.5	1.86
	AUTUMN	29	2.6	4.5	5.8	6.7	7.2	8.1	8.8	11.1	12.2	21.8	45.5	11.4	9.1	1.91
	57 61	123	2.1	5.0	6.4	7.2	8.3	10.1	11.5	13.2	16.3	23.2	109.6	13.6	10.5	1.93
READING	WINTER	11	4.7	5.3	6.3	6.7	7.0	8.8	9.6	10.3	13.3	14.4	15.9	9.5	8.8	1.49
	SPRING	13	5.2	5.3	7.0	7.4	7.8	8.5	8.8	9.6	10.3	17.0	19.7	9.5	8.9	1.45
	SUMMER	14	4.3	4.5	6.7	7.0	7.6	7.9	8.1	8.6	8.8	12.2	15.4	8.4	8.1	1.34
	AUTUMN	12	1.9	2.0	5.3	8.8	11.3	12.2	14.4	23.6	26.5	27.9	49.0	16.8	12.4	2.41
	58 60	50	1.9	5.3	6.7	7.3	7.8	8.4	9.1	10.8	13.7	20.0	49.0	10.9	9.3	1.71
SCRANTON	WINTER	20	3.2	5.3	14.9	16.0	17.0	20.0	23.6	26.5	29.6	32.9	47.7	21.6	18.6	1.87
	SPRING	20	3.7	4.5	6.3	8.8	10.3	12.2	14.4	17.0	21.2	23.6	33.2	14.2	12.0	1.85
	SUMMER	19	2.4	3.2	5.3	6.9	7.8	8.5	8.8	10.3	12.2	14.4	19.2	8.9	7.9	1.72
	AUTUMN	19	5.4	7.4	8.3	11.3	14.4	17.0	20.0	22.4	30.4	38.9	54.3	19.8	16.2	1.93
	57 61	78	2.4	5.3	7.4	8.6	11.3	14.0	16.7	20.0	23.2	31.2	54.3	16.2	13.0	1.99
WILKES BARRE	WINTER	12	1.6	1.7	2.3	4.5	6.3	6.7	7.0	7.4	14.4	23.6	34.8	9.8	6.8	2.44
	SPRING	14	2.3	2.3	3.2	6.6	7.1	7.4	8.1	9.3	9.8	14.4	20.8	8.4	7.2	1.81
	SUMMER	14	3.3	3.5	5.3	5.8	6.7	7.0	7.4	8.8	10.8	11.7	12.2	7.6	7.0	1.52
	AUTUMN	11	2.4	2.7	3.8	4.5	5.3	8.8	10.3	12.2	14.4	21.8	20.5	9.5	7.7	2.01
	58 60	51	1.6	3.0	3.8	5.6	6.5	7.2	8.2	9.9	11.6	14.4	34.8	8.8	7.2	1.90
YORK	WINTER	12	3.4	3.8	5.8	6.9	7.4	10.3	13.0	14.4	20.0	23.6	24.2	12.2	10.4	1.85
	SPRING	13	3.4	3.8	5.3	7.9	8.3	9.2	9.6	9.9	10.3	14.4	17.9	9.4	8.6	1.57
	SUMMER	13	3.4	3.5	4.5	4.8	5.0	5.6	6.0	6.3	8.8	10.3	10.4	6.3	6.0	1.43
	AUTUMN	13	4.3	4.2	5.3	5.6	6.0	7.4	8.1	8.8	12.2	23.6	23.8	9.9	8.3	1.81
	59 61	51	3.4	4.0	4.9	5.6	6.2	7.9	9.0	10.1	12.9	19.0	24.2	9.4	8.1	1.71
PUERTO RICO																
SAN JUAN	WINTER	20	1.6	2.7	4.8	5.3	5.7	6.1	6.7	7.4	8.3	10.3	16.1	6.9	6.1	1.66
	SPRING	23	2.1	2.7	4.2	4.9	5.5	6.0	6.3	6.9	7.4	11.6	37.7	7.5	6.1	1.81
	SUMMER	24	1.7	3.2	4.0	4.5	5.8	6.3	7.4	8.8	10.3	12.2	16.3	7.2	6.4	1.70
	AUTUMN	25	1.6	3.0	3.5	4.1	4.4	4.9	5.3	7.4	8.0	8.8	10.9	5.4	4.9	1.64
	57 61	92	1.6	3.0	3.9	4.6	5.3	5.8	6.4	7.4	8.6	11.1	37.7	6.7	5.8	1.70
RHODE ISLAND																
PROVIDENCE	WINTER	33	2.4	5.3	6.3	7.0	7.9	9.4	10.3	13.3	18.0	25.8	70.0	13.1	10.2	1.97
	SPRING	29	2.9	5.3	6.6	7.4	8.5	9.8	10.8	12.2	15.3	20.0	32.5	11.4	9.9	1.72
	SUMMER	33	3.3	4.3	4.8	5.1	5.8	6.9	7.4	8.5	9.8	12.2	14.2	7.4	6.9	1.46
	AUTUMN	31	2.3	4.7	5.3	6.1	6.7	7.9	10.3	13.7	16.1	21.8	42.6	11.2	9.1	1.89
	57 61	126	2.3	4.7	5.4	6.4	7.1	8.1	9.6	11.4	14.2	19.4	70.0	10.7	8.9	1.80
SOUTH CAROLINA																
CHARLESTON	WINTER	13	3.7	3.8	7.4	7.9	8.3	10.3	12.2	14.4	17.0	27.9	33.8	13.1	10.7	1.94
	SPRING	11	.8	.9	1.4	1.6	1.7	3.0	3.2	3.8	5.3	10.3	11.6	4.0	2.9	2.30
	SUMMER	13	1.8	1.9	2.3	2.5	2.7	3.0	3.2	3.4	3.6	4.5	6.3	3.2	3.0	1.42
	AUTUMN	12	3.8	3.8	4.2	5.8	6.3	6.7	7.0	7.4	8.8	17.0	23.5	8.3	7.2	1.69
	59 61	49	.8	1.9	2.7	3.2	3.7	4.5	6.3	7.7	9.6	15.7	33.8	7.3	5.2	2.27
COLUMBIA	WINTER	20	6.9	8.8	10.3	11.3	12.2	14.4	20.0	21.8	23.6	27.9	64.6	19.0	16.2	1.72
	SPRING	26	.9	2.7	4.5	6.3	7.4	9.2	10.3	10.9	11.9	15.7	35.5	10.5	8.1	2.20
	SUMMER	26	3.3	4.5	4.9	6.3	6.7	7.4	8.8	9.8	11.3	12.2	16.6	8.3	7.6	1.50
	AUTUMN	23	5.1	5.3	7.0	8.8	10.8	12.2	15.1	16.4	18.5	23.6	52.9	14.9	12.4	1.82
	57 61	95	.9	4.8	6.3	7.3	9.0	10.4	11.4	13.3	16.7	23.0	64.6	12.7	10.2	1.95
GREENVILLE	WINTER	11	6.4	7.4	8.1	8.8	11.3	17.0	20.0	30.4	32.9	38.9	50.9	19.9	16.1	1.99
	SPRING	14	4.2	4.5	5.0	5.3	7.8	8.1	8.5	10.3	15.7	27.9	33.0	11.1	8.9	1.92
	SUMMER	13	3.2	3.2	4.0	4.3	4.5	5.0	5.3	7.4	8.8	10.3	10.6	6.2	5.7	1.50
	AUTUMN	13	4.1	4.5	10.3	14.4	15.7	20.0	21.8	23.6	27.9	38.9	45.8	20.0	16.7	1.97
	57 60	51	3.2	4.2	4.9	6.3	8.0	9.6	12.2	16.5	23.6	32.9	50.9	14.0	10.6	2.11
SOUTH DAKOTA																
SIOUX FALLS	WINTER	30	1.5	2.3	2.9	3.8	4.2	4.6	5.0	5.8	6.9	8.1	10.8	5.1	4.6	1.60
	SPRING	32	1.7	2.4	2.7	3.4	3.8	4.3	5.0	5.6	6.3	8.8	27.2	5.5	4.6	1.77
	SUMMER	31	.5	2.4	3.2	3.6	3.9	4.3	4.6	5.0	5.6	6.9	10.2	4.5	4.1	1.69
	AUTUMN	32	1.7	2.2	2.7	3.2	3.8	4.2	4.5	5.0	6.3	8.8	16.9	5.1	4.3	1.74
	57 61	125	.5	2.4	2.9	3.5	3.9	4.3	4.8	5.3	6.2	8.3	27.2	5.1	4.4	1.70

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TENNESSEE																
CHATTANOOGA	WINTER	24	7.4	8.8	9.9	13.3	17.0	22.4	24.3	26.5	27.9	42.4	67.6	23.0	19.5	1.82
	SPRING	27	6.4	8.8	10.3	13.3	15.7	17.8	19.3	21.8	25.8	32.9	46.9	19.4	17.1	1.65
	SUMMER	24	6.2	6.3	9.8	10.7	11.8	12.9	14.4	20.0	22.4	26.5	29.1	15.3	13.9	1.58
	AUTUMN	26	7.8	11.3	12.9	15.1	16.4	19.0	25.8	29.2	32.9	51.4	82.2	26.5	21.7	1.88
	58 61	101	6.2	8.8	10.5	12.6	14.9	17.7	21.0	24.3	27.6	38.9	82.2	21.1	17.9	1.77
KNOXVILLE	WINTER	19	4.4	5.3	8.8	11.3	12.9	14.4	17.0	21.8	32.9	36.9	39.3	18.3	15.1	1.94
	SPRING	19	2.9	3.8	5.3	6.0	7.4	8.8	11.3	13.3	15.1	16.4	20.9	10.1	8.7	1.77
	SUMMER	19	4.0	4.9	5.6	6.3	6.9	7.4	8.8	9.8	11.3	12.9	13.6	8.4	7.9	1.44
	AUTUMN	18	3.8	5.3	9.6	10.3	11.6	14.4	17.0	19.0	20.0	22.4	55.0	16.1	13.4	1.84
	57 61	75	2.9	4.9	6.0	7.4	9.3	11.1	12.7	14.8	17.8	23.0	55.0	13.2	10.8	1.86
MEMPHIS	WINTER	17	4.8	5.6	6.0	6.7	7.4	8.1	8.5	9.3	10.3	12.2	18.2	8.5	8.0	1.41
	SPRING	20	3.9	4.5	5.8	6.9	7.6	7.9	8.3	8.6	9.3	10.3	18.6	8.0	7.6	1.40
	SUMMER	21	4.8	5.0	5.6	6.1	6.7	7.8	8.5	9.3	10.3	13.3	23.0	8.5	7.9	1.48
	AUTUMN	18	3.2	4.9	5.8	6.3	7.4	8.1	8.8	11.3	12.2	23.6	34.0	11.6	9.3	1.92
	58 61	76	3.2	5.1	5.8	6.5	7.3	7.9	8.5	9.1	10.3	13.7	34.0	9.1	8.1	1.56
NASHVILLE	WINTER	31	5.1	6.0	8.3	10.3	11.7	13.9	15.4	17.0	23.6	38.9	51.3	17.7	14.5	1.87
	SPRING	33	3.5	4.8	6.3	7.1	8.0	9.2	10.3	11.7	16.1	35.9	46.4	13.1	10.3	1.94
	SUMMER	32	4.5	5.3	6.3	6.9	7.4	7.9	8.3	8.8	11.7	15.3	17.3	9.0	8.4	1.41
	AUTUMN	33	4.4	6.3	7.4	8.5	9.6	12.8	14.4	17.0	23.6	57.4	72.7	19.1	13.8	2.15
	57 61	129	3.5	5.6	6.7	7.7	8.5	10.0	11.8	14.6	17.0	34.4	72.7	14.7	11.5	1.92
TEXAS																
AUSTIN	WINTER	13	2.3	2.3	2.7	3.2	4.9	7.4	7.9	8.3	8.8	15.7	15.7	7.2	5.9	1.96
	SPRING	14	3.1	3.2	4.6	4.8	5.0	5.2	5.3	7.4	7.8	8.5	8.7	5.8	5.6	1.35
	SUMMER	13	3.1	3.0	3.8	4.0	4.2	4.5	4.9	5.3	5.6	6.1	6.1	4.6	4.5	1.27
	AUTUMN	12	2.4	2.7	3.2	4.7	4.8	5.0	5.1	5.3	11.3	12.2	15.5	6.6	5.7	1.75
	58 61	52	2.3	2.8	3.8	4.5	4.8	5.0	5.3	6.1	8.0	10.9	15.7	6.0	5.4	1.60
BEAUMONT	WINTER	10	.9	.9	1.7	2.3	4.5	5.3	5.6	6.0	6.3	7.4	17.0	5.7	4.3	2.32
	SPRING	12	1.7	1.6	1.7	2.5	2.6	2.7	3.4	3.6	5.3	6.3	8.4	3.7	3.3	1.61
	SUMMER	12	2.8	3.2	3.4	3.8	4.5	4.9	5.3	5.8	7.4	11.3	12.0	5.8	5.2	1.56
	AUTUMN	13	1.8	1.9	3.0	3.2	4.2	5.3	6.3	7.4	8.1	12.2	20.7	6.6	5.2	2.03
	59 61	47	.9	1.9	2.5	3.2	3.7	4.5	5.1	5.9	7.0	8.8	20.7	5.4	4.4	1.89
CORPUS CHRISTI	WINTER	19	1.1	1.4	1.6	2.2	3.2	3.6	3.8	4.9	5.8	8.1	11.0	4.1	3.4	1.96
	SPRING	21	1.5	1.6	2.0	2.2	2.4	2.8	3.0	3.1	4.5	5.8	7.7	3.2	2.9	1.56
	SUMMER	19	1.6	1.9	2.2	2.4	2.6	2.8	2.8	3.0	3.1	4.5	5.2	2.9	2.8	1.37
	AUTUMN	18	2.3	2.3	2.4	2.5	2.6	2.7	3.2	4.5	4.7	5.1	6.0	3.3	3.2	1.39
	57 61	77	1.1	1.7	2.1	2.4	2.6	2.8	3.0	3.7	4.8	5.5	11.0	3.4	3.0	1.58
DALLAS	WINTER	16	4.0	4.3	4.5	7.4	8.8	10.3	11.3	11.7	13.3	14.4	25.4	10.8	9.4	1.74
	SPRING	27	1.7	4.0	4.5	5.1	6.9	8.1	8.8	10.3	15.7	20.0	25.5	9.7	8.0	1.90
	SUMMER	21	2.4	3.5	4.5	5.8	6.3	7.0	7.4	8.1	8.8	10.9	11.5	7.0	6.6	1.48
	AUTUMN	26	1.7	2.7	4.3	5.6	6.3	8.3	10.3	11.1	12.2	13.7	18.3	8.4	7.1	1.87
	57 61	90	1.7	3.9	4.5	5.7	6.8	7.9	9.0	10.6	11.9	15.3	25.5	8.9	7.6	1.78
EL PASO	WINTER	19		3.2	5.3	6.6	7.1	7.9	8.3	11.3	17.0	20.0	32.1	10.6	6.9	3.86
	SPRING	20	1.7	1.9	2.4	2.7	3.4	3.8	4.1	4.4	4.9	6.3	8.4	4.0	3.7	1.53
	SUMMER	19	1.7	3.2	3.8	4.1	4.4	4.9	5.3	6.0	6.5	7.0	7.4	4.9	4.7	1.41
	AUTUMN	20	1.3	2.0	3.0	3.8	5.3	5.7	6.1	10.3	12.2	13.3	14.4	7.2	5.8	2.03
	57 61	78		2.4	3.2	3.8	4.3	5.2	6.0	6.9	8.1	12.8	32.1	6.6	5.1	2.28
FT WORTH	WINTER	19	3.7	5.3	6.0	6.6	7.1	7.9	8.3	9.6	10.9	12.2	17.7	8.6	8.0	1.44
	SPRING	20	2.5	2.7	4.5	5.6	6.1	6.6	7.1	7.9	8.8	14.4	25.5	7.8	6.7	1.73
	SUMMER	19	2.5	3.4	3.8	4.2	4.5	5.3	5.6	6.1	6.9	8.8	16.6	5.9	5.3	1.58
	AUTUMN	20	3.5	4.5	5.6	6.3	6.7	7.2	7.8	8.5	10.9	12.2	17.9	8.3	7.7	1.47
	58 61	78	2.5	3.7	4.7	5.5	6.1	6.7	7.3	8.2	9.8	12.2	25.5	7.7	6.8	1.59
GALVESTON	WINTER	11	1.5	1.6	1.7	2.4	2.6	3.4	3.6	3.8	4.5	8.8	9.4	4.0	3.4	1.80
	SPRING	14	1.6	1.4	1.6	1.6	1.7	2.4	2.6	3.4	3.5	3.8	8.6	2.9	2.5	1.60
	SUMMER	11	1.5	1.5	1.5	1.6	1.6	2.0	2.5	2.7	3.5	3.8	6.6	2.6	2.3	1.59
	AUTUMN	13	1.7	1.6	2.2	2.3	2.4	2.6	2.7	4.5	5.3	7.4	10.4	3.8	3.3	1.77
	59 61	49	1.5	1.5	1.6	1.7	2.4	2.5	2.7	3.5	3.8	6.9	10.4	3.3	2.8	1.70

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
HOUSTON	WINTER	31	3.6	4.0	4.5	6.0	7.4	8.5	9.6	12.2	15.4	17.0	28.4	10.2	8.6	1.79
	SPRING	32	1.6	2.9	3.3	3.7	4.2	4.7	5.3	6.5	7.2	8.8	16.0	5.6	5.0	1.60
	SUMMER	30	.8	3.2	4.0	4.7	5.1	5.6	6.1	7.4	9.3	12.2	15.1	6.7	5.8	1.81
	AUTUMN	32	2.0	3.8	5.0	6.9	8.0	8.8	9.9	11.1	14.4	17.0	28.4	10.1	8.5	1.85
	57 61	125	.8	3.4	4.0	4.8	5.6	6.7	7.8	9.2	11.0	15.7	28.4	8.2	6.8	1.85
SAN ANTONIO	WINTER	30	2.4	3.2	4.8	5.5	6.0	6.5	7.0	8.1	10.3	15.7	49.4	9.4	7.3	1.90
	SPRING	29	2.2	2.7	3.9	4.4	4.9	5.5	5.9	6.5	7.0	8.1	9.9	5.5	5.2	1.47
	SUMMER	32	1.5	2.0	2.3	3.1	4.3	4.7	5.1	5.6	7.4	8.1	8.5	4.7	4.2	1.65
	AUTUMN	27	1.4	2.2	3.2	4.5	5.0	6.3	7.0	8.8	9.7	10.3	27.1	7.1	5.8	1.93
	57 61	118	1.4	2.4	3.4	4.4	4.9	5.5	6.2	7.1	8.1	9.8	49.4	6.6	5.5	1.80
TEXAS CITY	WINTER	11	.7	.7	1.7	2.0	2.2	3.0	3.2	3.8	5.3	7.4	15.0	4.0	2.9	2.24
	SPRING	13	.9	.9	2.3	2.7	2.8	3.1	3.2	3.5	3.8	4.5	6.2	3.2	2.9	1.63
	SUMMER	11		.1	1.4	2.3	3.2	4.2	4.5	5.3	5.8	6.3	12.3	4.3	2.7	4.24
	AUTUMN	11	1.3	1.4	1.9	2.0	2.3	3.2	3.8	4.5	5.3	7.4	7.8	3.7	3.2	1.77
	59 61	46		1.4	1.9	2.2	2.8	3.1	3.6	4.1	5.0	6.3	15.0	3.8	2.9	2.37
WACO	WINTER	19	2.2	2.3	2.7	3.0	3.5	4.0	4.3	5.6	6.3	11.3	19.9	5.7	4.6	1.85
	SPRING	19	1.3	2.1	2.3	3.0	3.4	3.8	4.0	4.3	4.8	5.3	8.2	3.9	3.6	1.54
	SUMMER	18	2.2	3.0	3.3	3.4	3.5	3.7	4.2	4.9	5.3	7.4	8.9	4.5	4.2	1.47
	AUTUMN	20	2.6	2.8	3.0	3.1	3.4	3.8	5.8	6.9	7.8	8.5	13.4	5.5	4.8	1.64
	58 61	76	1.3	2.4	2.9	3.2	3.4	3.8	4.3	5.2	6.7	8.3	19.9	4.9	4.3	1.64
UTAH																
SALT LAKE CITY	WINTER	26	4.0	7.4	8.8	11.6	13.3	17.0	20.9	22.7	26.5	32.9	54.5	19.2	16.0	1.88
	SPRING	29	3.9	4.7	5.1	5.6	6.1	6.6	6.9	7.4	8.8	10.9	15.6	7.2	6.8	1.41
	SUMMER	35	3.9	4.5	5.1	5.7	6.1	7.0	7.7	8.2	8.5	9.8	11.5	6.9	6.7	1.32
	AUTUMN	29	3.7	6.3	8.0	8.8	10.8	12.2	14.4	16.4	19.0	27.9	46.8	14.6	12.4	1.79
	57 61	119	3.7	4.8	5.7	6.5	7.5	8.3	9.6	11.6	15.9	23.6	54.5	11.5	9.4	1.82
VERMONT																
BURLINGTON	WINTER	32	.7	1.4	2.1	2.4	2.6	3.4	3.7	4.3	5.3	6.3	9.6	3.6	3.2	1.78
	SPRING	29	1.6	2.4	2.6	2.9	3.1	3.6	4.2	5.0	6.0	7.4	10.2	4.3	3.9	1.60
	SUMMER	34	.8	.8	1.5	1.7	2.6	2.8	3.2	3.5	3.8	4.4	6.1	2.8	2.5	1.78
	AUTUMN	32	.8	1.5	1.6	1.9	2.3	2.4	2.6	2.7	3.4	4.0	6.1	2.6	2.4	1.50
	57 61	127	.7	1.5	1.7	2.4	2.6	2.9	3.3	3.7	4.4	5.7	10.2	3.3	2.9	1.72
VIRGINIA																
DANVILLE	WINTER	6	3.1	3.2	3.2	6.3	6.3	8.8	14.4	14.4	17.0	17.0	41.2	14.5	10.2	2.48
	SPRING	7	2.3	2.3	2.3	3.5	3.8	7.4	7.4	12.2	14.4	14.4	15.3	8.2	6.6	2.14
	SUMMER	7	2.3	2.2	2.2	2.3	4.0	4.3	4.3	4.5	6.9	6.9	7.0	4.5	4.1	1.57
	AUTUMN	5	5.4	5.8	5.8	6.3	6.3	7.4	7.4	8.8	8.8	14.4	14.3	8.3	7.8	1.46
	60 60	25	2.3	2.3	3.5	4.3	5.6	6.6	7.1	8.8	12.9	15.7	41.2	8.7	6.6	2.04
HAMPTON	WINTER	19	2.3	2.4	2.6	3.2	4.2	5.3	5.8	7.4	8.8	14.4	22.3	6.8	5.3	2.01
	SPRING	19	1.0	1.7	2.7	3.5	4.5	6.0	6.3	7.4	8.3	9.6	12.4	5.7	4.7	2.00
	SUMMER	18	2.5	2.5	2.6	2.7	3.8	4.1	4.4	5.3	5.6	6.1	9.1	4.4	4.1	1.45
	AUTUMN	21	.8	.9	2.2	2.7	4.2	5.3	5.8	6.3	7.4	9.6	12.7	5.3	4.2	2.13
	58 61	77	.8	2.2	2.5	3.2	4.0	4.7	5.6	6.2	7.9	9.6	22.3	5.6	4.6	1.91
NORFOLK	WINTER	31	5.0	7.4	8.1	8.8	11.1	12.2	15.4	16.4	23.6	34.9	43.0	15.8	13.5	1.74
	SPRING	31	3.1	5.3	5.7	6.1	6.9	8.1	8.8	10.7	11.8	15.7	21.8	9.2	8.2	1.59
	SUMMER	34	2.4	3.2	3.8	4.2	4.9	5.4	5.8	6.3	7.4	8.3	10.4	5.5	5.2	1.41
	AUTUMN	31	2.3	3.5	4.8	5.5	6.0	6.7	7.4	8.8	11.6	13.7	21.0	7.9	7.0	1.65
	57 61	127	2.3	3.9	5.0	5.8	6.4	7.5	8.3	10.7	12.2	16.3	43.0	9.5	7.9	1.79
PORTSMOUTH	WINTER	7	7.1	7.4	7.4	12.2	14.4	15.7	15.7	17.0	23.6	23.6	30.5	16.4	15.0	1.59
	SPRING	6	5.2	5.3	5.3	6.3	6.3	6.9	7.4	7.4	10.3	10.3	11.5	7.9	7.6	1.35
	SUMMER	6	3.7	3.8	3.8	6.3	6.3	7.4	7.9	7.9	8.3	8.3	8.6	6.9	6.7	1.38
	AUTUMN	5	3.3	3.8	3.8	4.5	4.5	8.1	8.1	8.8	8.8	12.2	11.6	7.2	6.4	1.73
	61 61	24	3.3	3.8	5.8	6.6	7.4	8.0	8.5	10.9	12.2	17.0	30.5	10.0	8.7	1.70
RICHMOND	WINTER	19	6.4	10.3	11.3	12.2	13.1	14.0	14.4	17.0	21.2	23.6	32.5	16.1	15.0	1.49
	SPRING	19	3.4	4.2	4.9	5.6	6.3	7.0	7.4	10.3	12.2	25.8	38.3	10.5	8.2	1.96
	SUMMER	19	2.1	2.3	2.8	3.1	3.4	3.8	3.9	4.2	4.4	5.8	7.3	3.9	3.7	1.38
	AUTUMN	19	2.5	3.8	4.8	5.3	7.4	8.0	8.2	8.8	12.2	14.4	22.3	8.6	7.5	1.73
	57 61	76	2.1	3.2	4.0	4.7	5.8	7.2	9.6	11.7	13.9	20.9	38.3	9.8	7.6	2.02

TABLE 2.11 — BENZENE SOLUBLE ORGANIC MATTER: URBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ROANOKE	WINTER	5	8.6	8.6	9.0	11.4	11.4	12.4	12.4	12.4	20.0	31.2	44.1	17.8	14.6	1.87
	SPRING	8	3.2	4.0	6.2	8.3	14.6	15.0	15.4	16.0	22.1	29.2	30.9	15.4	12.4	2.16
	SUMMER	6	5.3	5.5	5.8	7.2	7.2	7.6	8.1	8.1	9.2	10.4	11.5	7.7	7.4	1.27
	AUTUMN	4	6.8	6.8	7.5	8.3	8.3	11.0	13.6	13.6	21.4	33.7	46.8	18.9	13.8	2.37
	59	23	3.2	5.3	6.9	7.7	8.2	11.3	12.9	14.4	16.1	32.9	46.8	14.5	11.4	1.96
WASHINGTON																
SEATTLE	WINTER	26	1.8	3.8	5.6	6.3	7.9	10.3	12.8	13.9	16.1	20.0	64.4	12.8	9.7	2.09
	SPRING	25	1.6	2.4	2.7	3.8	4.2	4.9	5.6	7.4	8.1	14.4	15.0	5.9	4.9	1.83
	SUMMER	26	1.8	2.3	2.5	2.9	3.2	4.5	5.1	6.6	7.4	9.3	10.8	5.1	4.4	1.71
	AUTUMN	25	2.3	3.8	4.5	5.3	5.8	6.7	7.4	8.8	12.2	17.0	23.2	8.3	6.9	1.83
	57 61	102	1.6	2.5	3.1	4.3	5.1	6.0	7.2	8.4	11.8	15.5	64.4	8.0	6.2	1.99
SPOKANE	WINTER	13	4.8	5.3	7.4	10.3	10.8	11.7	12.2	15.7	17.0	23.6	27.3	13.2	11.9	1.63
	SPRING	12	2.6	2.7	4.5	5.3	6.3	7.4	10.3	12.2	15.7	17.0	29.0	10.4	8.4	1.99
	SUMMER	14	2.8	2.9	3.2	3.4	3.8	4.0	4.3	4.9	5.3	7.4	9.6	4.6	4.3	1.44
	AUTUMN	12	1.7	1.7	2.7	6.3	8.1	8.8	14.4	20.0	23.6	27.9	38.8	14.4	9.9	2.69
	60 61	51	1.7	3.0	3.9	4.7	5.6	7.4	10.3	12.2	16.4	22.4	38.8	10.5	8.0	2.13
TACOMA	WINTER	9	9.0	10.3	11.3	12.2	27.9	30.4	30.4	32.9	38.9	54.1	62.6	30.5	25.1	2.01
	SPRING	12	3.9	4.2	4.5	5.3	6.3	8.1	8.8	12.2	17.0	23.6	30.4	11.0	8.8	1.97
	SUMMER	13	2.7	2.7	4.9	5.3	6.3	7.0	7.4	8.1	8.8	15.7	17.0	7.9	7.0	1.65
	AUTUMN	13	2.6	2.7	6.9	7.4	8.8	23.6	25.8	27.9	32.9	45.9	48.1	21.9	15.8	2.55
	58 60	47	2.6	4.5	5.1	6.7	8.0	10.3	14.4	21.8	29.2	35.9	62.6	16.9	11.9	2.34
WEST VIRGINIA																
CHARLESTON	WINTER	30	3.2	4.0	4.7	5.3	7.4	9.6	12.2	16.1	19.0	23.6	34.3	12.2	9.6	2.02
	SPRING	30	2.0	3.8	5.0	5.6	6.1	7.4	10.8	12.2	17.0	21.8	37.2	10.9	8.6	2.04
	SUMMER	30	2.5	4.2	5.3	5.6	5.8	6.1	6.3	8.1	9.0	9.8	13.9	6.8	6.4	1.41
	AUTUMN	31	1.5	2.7	3.8	5.3	7.0	8.8	10.3	11.4	12.9	18.5	41.3	10.3	8.0	2.08
	57 61	121	1.5	3.8	4.7	5.6	6.2	7.7	9.3	11.0	14.0	19.6	41.3	10.0	8.1	1.92
HUNTINGTON	WINTER	7	4.0	4.5	4.5	6.3	12.2	20.0	20.0	23.6	25.8	25.8	26.1	16.2	13.3	2.13
	SPRING	4	7.3	.1	7.4	7.4	8.8	8.8	8.8	14.4	14.4	20.0	17.4	11.5	10.7	1.54
	SUMMER	6	4.4	4.5	4.5	7.4	7.4	10.3	12.9	12.9	13.7	13.7	14.0	10.1	9.4	1.58
	AUTUMN	7	6.8	6.9	6.9	7.4	8.8	13.3	13.3	14.4	20.0	20.0	24.0	13.3	12.0	1.63
	60 60	24	4.0	4.5	6.9	7.4	10.3	12.6	13.3	14.4	19.0	25.0	26.1	13.1	11.4	1.73
WHEELING	WINTER	12	5.4	6.3	12.2	13.7	14.4	17.0	20.0	35.9	41.2	43.6	43.7	23.9	19.9	1.95
	SPRING	12	6.5	7.4	8.1	10.3	12.2	17.0	18.5	20.0	22.4	23.6	45.1	17.4	15.1	1.74
	SUMMER	12	7.0	7.4	7.8	8.5	8.8	9.1	9.4	9.7	10.3	11.3	10.6	9.2	9.1	1.15
	AUTUMN	12	4.5	4.5	5.3	9.3	9.8	10.3	12.2	21.2	23.6	32.9	48.1	16.5	12.8	2.10
	57 59	48	4.5	6.9	8.3	9.1	10.0	11.4	14.4	20.0	22.4	38.9	48.1	16.7	13.7	1.87
WISCONSIN																
MADISON	WINTER	12	3.8	3.5	3.8	4.3	4.5	5.3	6.3	6.9	9.6	10.3	20.1	6.9	6.0	1.67
	SPRING	13	3.2	3.2	4.5	5.3	5.5	5.9	6.1	6.3	7.4	10.3	18.5	6.9	6.2	1.57
	SUMMER	14	2.3	2.3	3.6	3.8	4.9	5.3	5.6	6.3	7.4	8.8	9.4	5.5	5.2	1.47
	AUTUMN	13	2.9	3.0	4.2	4.5	4.8	5.3	7.4	7.8	8.1	8.8	9.5	6.0	5.6	1.48
	59 61	52	2.3	3.3	3.9	4.4	5.0	5.5	6.1	7.0	8.3	9.6	20.1	6.3	5.7	1.54
MILWAUKEE	WINTER	30	4.5	5.6	6.4	6.9	7.3	8.8	9.9	11.6	14.4	15.7	17.0	9.9	9.2	1.48
	SPRING	30	.9	3.2	4.2	5.0	6.3	7.4	8.2	11.3	12.9	14.0	21.1	8.3	6.9	1.92
	SUMMER	30	3.6	4.2	5.3	5.6	6.0	6.3	7.4	9.3	10.7	11.8	12.4	7.5	7.0	1.44
	AUTUMN	33	3.7	4.8	5.7	6.3	7.9	8.8	9.7	10.9	12.6	14.0	21.1	9.3	8.5	1.52
	57 61	123	.9	4.2	5.4	6.0	6.8	7.9	9.0	10.6	12.3	14.1	21.1	8.7	7.9	1.62
RACINE	WINTER	9	2.9	3.2	4.5	7.4	8.1	8.8	8.8	9.3	9.8	10.3	21.5	8.7	7.6	1.75
	SPRING	14	1.5	1.7	4.5	4.9	6.3	6.9	7.4	9.3	9.8	14.4	16.5	7.6	6.5	1.86
	SUMMER	12	2.6	2.7	3.5	4.5	5.3	6.3	6.6	6.9	7.4	8.1	8.6	5.7	5.3	1.47
	AUTUMN	11	6.1	6.3	6.9	7.4	8.8	11.3	12.2	18.5	20.0	21.8	23.0	12.8	11.5	1.63
	57 60	46	1.5	3.5	4.5	6.0	6.7	7.3	8.3	9.2	10.3	17.0	23.0	8.6	7.3	1.79
WYOMING																
CHEYENNE	WINTER	32	.8	1.4	1.6	2.3	3.2	3.6	3.9	4.4	6.3	8.3	12.6	4.2	3.3	2.00
	SPRING	33	.7	1.0	1.6	2.0	2.5	2.7	3.4	3.9	4.2	4.5	8.9	3.1	2.7	1.74
	SUMMER	28	.9	2.0	2.5	2.6	3.0	3.3	3.5	3.7	3.8	5.0	5.8	3.4	3.2	1.46
	AUTUMN	31	.8	1.6	2.7	3.3	3.5	3.7	4.1	4.5	5.6	7.4	11.4	4.3	3.6	1.85
	57 61	124	.7	1.5	1.9	2.5	3.1	3.4	3.7	4.1	4.6	6.2	12.6	3.7	3.2	1.79

TABLE 2.12 — BENZENE SOLUBLE ORGANIC MATTER: NONURBAN, YEARLY AND CUMULATIVE REGIONAL AND NATIONAL SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57	45		.8	.8	1.4	1.5	1.6	1.7	2.0	2.5	3.1	4.9	1.8	1.5	2.05
	58	623		.8	1.0	1.5	1.8	2.0	2.4	2.7	3.2	4.3	19.9	2.4	1.9	2.31
	59	918		.7	.8	1.0	1.4	1.6	1.8	2.2	2.7	3.7	23.5	2.0	1.4	2.71
	60	729		.7	.8	.9	1.3	1.6	1.8	2.1	2.6	3.6	16.7	1.9	1.5	2.08
	61	799		.7	.8	.8	.9	1.3	1.6	1.8	2.3	3.0	13.7	1.7	1.4	1.85
	57 61	3114		.7	.8	.9	1.4	1.6	1.8	2.2	2.7	3.7	23.5	2.0	1.5	2.27
NEW ENGLAND	58	66		.8	1.3	1.7	1.8	2.0	2.6	3.2	3.8	4.3	5.3	2.5	1.9	2.60
	59	127		.7	.9	1.2	1.5	1.7	2.0	2.3	2.8	3.7	11.8	2.2	1.6	2.53
	60	100	.6	.7	.9	1.0	1.2	1.5	1.8	2.0	2.6	4.0	14.9	2.0	1.6	1.87
	61	97	.7	.7	.8	.9	1.1	1.4	1.6	1.8	2.4	3.4	10.0	1.8	1.5	1.79
	58 61	390		.7	.9	1.1	1.4	1.6	1.9	2.2	2.8	3.9	14.9	2.1	1.6	2.20
MID ATLANTIC	58	21		.7	.8	1.5	1.6	2.4	2.6	2.9	3.2	4.9	5.4	2.4	1.8	2.79
	59	49	.7	.9	1.4	1.5	1.6	1.9	2.2	2.6	3.4	5.0	7.7	2.5	2.1	1.78
	60	48	.7	.8	1.4	1.6	1.7	2.0	2.4	2.6	3.0	4.2	6.9	2.3	2.0	1.71
	61	70	.8	.8	.9	1.5	1.7	2.1	2.4	2.6	3.1	4.3	6.1	2.3	1.9	1.81
	58 61	188		.8	1.3	1.5	1.7	2.0	2.4	2.6	3.2	4.5	7.7	2.4	2.0	1.89
MID EAST	58	94	.8	1.0	1.5	1.6	1.9	2.2	2.4	2.6	2.9	4.2	10.0	2.4	2.2	1.63
	59	148		.7	.8	1.2	1.4	1.5	1.7	2.0	2.4	3.1	9.6	1.8	1.4	2.37
	60	99	.5	.8	.9	1.4	1.6	1.8	1.9	2.1	2.7	3.7	6.5	2.0	1.8	1.74
	61	99	.7	.8	.8	.9	1.4	1.5	1.6	2.0	2.4	3.0	5.2	1.7	1.5	1.67
	58 61	440		.8	.9	1.3	1.5	1.7	1.9	2.2	2.6	3.4	10.0	2.0	1.7	1.96
SOUTH EAST	58	93	.6	.8	1.4	1.6	1.8	2.2	2.5	3.0	3.9	5.6	19.9	2.9	2.3	1.95
	59	115		.7	.9	1.4	1.5	1.6	1.9	2.4	2.7	3.8	10.2	2.1	1.6	2.57
	60	70		.6	.7	.7	1.0	1.4	1.7	2.0	2.7	3.8	5.3	1.8	1.4	2.25
	61	69	.7	.7	.7	.9	1.4	1.6	1.8	2.3	2.6	3.8	8.6	2.1	1.6	1.96
	58 61	347		.7	.8	1.3	1.5	1.7	2.0	2.4	3.0	4.3	19.9	2.3	1.7	2.27
MID WEST	57	22		.7	.8	.9	1.4	1.5	1.6	1.7	2.3	2.7	3.1	1.5	1.3	2.33
	58	91	.6	.9	1.4	1.8	2.3	2.5	2.8	3.3	3.9	5.3	18.2	3.0	2.5	1.87
	59	70	.7	.8	1.3	1.5	1.7	2.3	2.6	2.9	3.3	4.5	7.4	2.5	2.1	1.80
	60	50	.7	.7	.9	1.3	1.6	1.8	2.0	2.3	3.0	4.3	6.2	2.2	1.8	1.81
	61	25	1.0	1.2	1.8	1.9	2.2	2.8	3.0	3.2	3.8	4.8	5.0	2.8	2.5	1.58
	57 61	258		.8	1.3	1.5	1.8	2.2	2.5	2.9	3.4	4.6	18.2	2.6	2.1	1.91
GREAT PLAINS	58	118		.8	1.2	1.8	2.1	2.3	2.5	2.8	3.1	3.7	8.7	2.4	2.0	2.22
	59	122		.7	.8	1.3	1.5	1.7	1.9	2.3	2.9	4.2	23.5	2.2	1.6	2.46
	60	75	.2	.7	.8	.9	1.0	1.5	1.7	1.9	2.2	3.4	5.5	1.7	1.4	1.86
	61	98	.8	.7	.8	.8	.9	1.0	1.5	1.6	1.7	2.1	4.8	1.4	1.2	1.56
	58 61	413		.7	.8	.9	1.5	1.6	1.9	2.2	2.7	3.4	23.5	2.0	1.6	2.12
GULF SOUTH	59	72		.7	.8	1.4	1.6	1.8	2.5	3.1	3.9	4.5	17.3	2.6	1.7	3.01
	60	72	.7	.7	.8	.9	1.5	1.6	1.7	2.0	2.6	3.1	9.1	1.9	1.6	1.83
	61	70	.7	.7	.8	.8	.9	1.4	1.6	1.7	2.3	3.0	13.7	1.7	1.4	1.78
	59 61	214		.7	.8	.9	1.4	1.6	1.8	2.4	2.8	3.9	17.3	2.1	1.6	2.23
ROCKY MOUNTAIN	58	97		.7	.8	.8	.9	1.6	1.8	1.9	2.0	3.1	6.5	1.7	1.2	2.95
	59	95		.1	.7	.8	.8	.9	.9	1.5	1.7	2.0	8.3	1.3	.9	2.97
	60	71		.7	.7	.8	.8	.9	.9	.9	1.5	1.9	3.8	1.1	.9	2.29
	61	99		.7	.7	.8	.8	.8	.8	.9	.9	1.6	4.0	1.0	.9	1.54
	58 61	362		.7	.7	.8	.8	.9	.9	1.5	1.8	2.0	8.3	1.3	1.0	2.47
PACIFIC COAST	57	23	.8	.8	.9	1.5	1.6	1.7	1.9	2.4	2.7	4.2	4.9	2.1	1.8	1.70
	58	43		.7	.9	1.4	1.6	1.7	1.9	2.2	2.8	3.2	4.7	1.9	1.5	2.52
	59	120		.1	.7	.8	.9	1.2	1.6	1.9	2.3	3.1	7.5	1.6	1.0	3.51
	60	144		.7	.9	1.0	1.5	1.8	2.0	2.5	2.8	3.9	16.7	2.2	1.6	2.40
	61	172		.7	.7	.8	.9	1.0	1.5	1.7	1.9	2.5	11.5	1.6	1.3	1.95
	57 61	502		.7	.8	.9	1.0	1.5	1.8	2.0	2.5	3.3	16.7	1.8	1.3	2.54

TABLE 2.13 — BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA																
BALDWIN COUNTY	58	22	.6	.7	.9	1.4	1.5	1.6	2.3	3.0	4.5	6.3	7.6	2.7	2.0	2.18
	59	23		.7	.8	.9	1.0	1.4	1.6	1.7	1.9	2.0	2.6	1.4	1.2	2.16
	58 59	45		.7	.8	1.2	1.3	1.5	1.7	1.9	2.5	4.5	7.6	2.0	1.5	2.26
ALASKA																
PT WORONZOF	58	23		.8	1.0	1.7	1.8	1.9	2.0	2.8	3.0	4.2	4.6	2.2	1.7	2.48
	59	25		.8	.8	.9	1.0	1.0	1.7	1.9	2.0	3.0	5.8	1.6	1.3	2.32
	60	26		.8	.9	.9	1.0	1.0	1.8	1.9	2.0	2.9	4.0	1.6	1.3	2.27
	61	26	.8	.8	.8	.9	.9	1.0	1.6	1.7	1.9	1.9	3.5	1.4	1.2	1.55
	58 61	100		.8	.9	.9	1.0	1.6	1.8	1.9	2.0	3.0	5.8	1.7	1.4	2.16
ARIZONA																
GRAND CANYON PARK	59	24			.1	.8	.9	1.2	1.7	2.0	2.3	3.5	4.4	1.5	.8	4.67
	60	21	.9	.8	.8	.9	1.0	1.2	1.7	1.9	2.3	2.7	4.6	1.7	1.4	1.66
	61	25		.7	.7	.8	.8	.8	.8	.9	.9	2.0	2.7	1.1	.9	2.05
	59 61	70		.7	.7	.8	.8	.9	1.1	1.8	2.0	2.6	4.6	1.4	1.0	2.87
MARICOPA COUNTY	60	26	.3	.7	.7	.9	1.5	1.7	2.2	2.4	2.7	3.5	4.6	1.9	1.6	1.97
	61	26	.8	.8	.8	.9	1.0	1.6	1.7	1.8	1.9	2.0	3.4	1.5	1.4	1.51
	60 61	52	.3	.7	.8	.9	1.5	1.6	1.8	1.9	2.4	3.2	4.6	1.7	1.5	1.75
ARKANSAS																
MONTGOMERY COUNTY	59	26		.8	.9	2.0	2.8	3.2	3.9	4.1	4.4	4.9	17.3	3.5	2.2	3.62
	60	26	.9	.9	1.2	1.7	1.8	1.9	2.4	2.5	2.9	3.2	9.1	2.4	2.1	1.69
	61	24	.9	.8	.9	.9	1.0	1.6	1.8	1.9	2.3	3.0	3.8	1.7	1.5	1.60
	59 61	76		.8	.9	1.6	1.8	1.9	2.5	2.9	3.5	4.2	17.3	2.6	1.9	2.36
CALIFORNIA																
HUMBOLDT COUNTY	60	20		.8	1.6	1.8	2.0	2.6	3.2	4.5	6.9	8.8	16.7	4.4	2.6	3.48
	61	23	.7	.6	.7	.7	1.2	1.4	1.6	2.0	3.8	7.4	11.5	2.7	1.7	2.51
	60 61	43		.6	.7	1.3	1.5	1.9	2.4	3.5	5.3	8.8	16.7	3.5	2.1	2.99
COLORADO																
MONTEZUMA COUNTY	58	26		.7	.8	.9	1.0	1.7	1.8	1.9	2.0	2.9	3.7	1.6	1.2	2.84
	59	22		.1	.7	.8	.8	.9	1.0	1.6	1.8	1.9	2.0	1.2	.9	2.72
	60	24		.1	.7	.8	.8	.8	.9	.9	.9	1.5	1.7	.9	.7	2.39
	61	25		.7	.7	.8	.8	.8	.9	.9	1.0	1.6	2.7	1.0	.9	1.97
	58 61	97		.7	.7	.8	.8	.9	.9	1.5	1.7	1.9	3.7	1.2	.9	2.49
CONNECTICUT																
LITCHFIELD COUNTY	58	20	.9	1.8	1.9	2.0	2.5	2.6	3.2	3.6	4.0	4.5	5.3	3.0	2.7	1.55
	59	25		.9	1.5	1.8	1.9	2.5	3.0	3.4	3.7	6.9	11.8	3.1	2.2	2.76
	58 59	45		1.4	1.7	1.9	2.3	2.6	3.0	3.5	3.8	5.0	11.8	3.0	2.4	2.25
DELAWARE																
KENT COUNTY	59	25	.8	1.4	1.5	1.6	1.6	2.2	2.7	3.5	3.8	6.3	7.7	2.9	2.4	1.85
	61	22	.9	1.2	2.2	2.5	2.6	3.0	3.5	4.0	4.9	5.6	6.1	3.3	3.0	1.63
	59 61	47	.8	1.4	1.5	1.7	2.3	2.6	3.2	3.7	4.8	5.7	7.7	3.1	2.7	1.76
FLORIDA																
FLORIDA KEYS	58	22	.8	.8	.9	1.5	1.6	1.7	1.9	2.0	2.4	2.7	6.4	2.0	1.7	1.72
	60	21		.3	.6	.6	.6	.7	.7	1.2	1.4	2.0	4.2	1.1	.8	2.52
	61	25	.7	.6	.6	.7	.7	1.0	1.2	2.0	2.4	3.0	3.3	1.4	1.2	1.81
	58 61	68		.6	.6	.7	.8	1.1	1.5	1.8	2.2	2.7	6.4	1.5	1.2	2.13
GEORGIA																
CHATHAM COUNTY	58	26	.8	1.8	2.0	2.2	2.4	2.6	3.4	3.7	4.5	6.3	19.9	3.9	3.1	1.88
	59	24		.1	.7	1.1	1.5	1.6	2.1	2.7	3.4	5.3	10.2	2.4	1.4	3.52
	58 59	50		.7	1.2	1.7	2.1	2.3	2.6	3.4	3.8	6.3	19.9	3.2	2.1	2.85
HAWAII																
KAHALUU	59	26		.9	1.0	1.6	1.9	2.2	2.4	2.7	3.2	3.8	5.1	2.3	1.8	2.43
	60	26	1.1	1.9	2.1	2.3	2.4	2.6	2.7	3.2	3.7	4.0	4.7	2.8	2.7	1.40
	61	26	.7	.8	.8	.9	1.4	1.7	1.9	2.4	2.5	2.6	3.5	1.8	1.6	1.64
	59 61	78		.8	1.2	1.6	2.0	2.3	2.5	2.6	3.0	3.7	5.1	2.3	2.0	1.91
WAIMANALO	57	23	.8	.8	.9	1.5	1.6	1.7	1.9	2.4	2.7	4.2	4.9	2.1	1.8	1.70

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
IDAHO																
BUTTE COUNTY	58	22		.1	.8	.9	1.0	1.0	1.7	1.8	1.9	2.0	3.8	1.5	1.1	2.97
	59	23		.1	.8	.9	.9	1.0	1.0	1.7	1.9	2.0	3.6	1.2	.8	3.83
	60	22		.7	.8	.8	.9	.9	1.0	1.0	1.9	3.0	3.8	1.4	1.1	2.31
	61	23	.9	.7	.8	.8	.8	.9	.9	.9	1.0	1.9	1.9	1.1	1.0	1.31
	58 61	90		.7	.8	.8	.9	.9	1.0	1.7	1.8	2.0	3.8	1.3	1.0	2.62
ILLINOIS																
SANGAMON COUNTY	58	23	.8	.9	2.0	2.6	2.9	3.3	3.6	3.8	4.5	6.3	18.2	4.0	3.2	1.97
	59	24	.8	.8	1.5	1.6	2.4	2.5	2.6	3.2	3.8	6.3	6.9	2.8	2.3	1.89
	58 59	47	.8	.9	1.6	2.3	2.5	2.7	3.2	3.6	4.5	6.0	18.2	3.4	2.7	1.95
INDIANA																
PARKE COUNTY	58	26	1.7	2.0	2.5	2.9	3.1	3.6	4.2	4.5	5.3	6.3	7.5	3.9	3.6	1.54
	60	26	.9	1.8	1.9	2.0	2.2	2.8	3.0	3.2	4.3	4.9	6.2	3.0	2.7	1.55
	61	25	1.0	1.2	1.8	1.9	2.2	2.8	3.0	3.2	3.8	4.8	5.0	2.8	2.5	1.58
	58 61	77	.9	1.7	1.9	2.1	2.7	3.0	3.2	3.9	4.5	5.2	7.5	3.2	2.9	1.59
IOWA																
DELAWARE COUNTY	59	26	1.0	1.0	1.8	1.9	1.9	2.3	2.9	3.0	4.0	4.5	6.6	2.7	2.5	1.61
	60	26	.9	.9	1.0	1.8	1.8	1.9	2.0	2.8	3.1	3.4	4.8	2.2	2.0	1.60
	61	25	.8	.8	.9	.9	1.0	1.0	1.7	1.9	2.0	2.3	4.8	1.6	1.4	1.59
	59 61	77	.8	.9	1.0	1.7	1.8	1.9	2.0	2.5	3.0	3.8	6.6	2.2	1.9	1.68
KENTUCKY																
PULASKI COUNTY	58	23	1.4	1.4	2.1	2.3	2.5	2.7	3.0	3.2	4.2	4.9	10.0	3.2	2.8	1.58
	59	26	1.3	1.3	1.4	1.8	2.0	2.2	2.7	2.9	3.1	3.8	4.9	2.4	2.2	1.45
	58 59	49	1.3	1.3	1.6	2.0	2.2	2.5	2.8	3.0	3.8	4.4	10.0	2.8	2.5	1.53
LOUISANA																
ST TAMMANY PARISH	59	25	.8	.9	1.4	1.6	1.7	2.0	2.5	3.4	3.7	5.3	12.2	2.8	2.2	1.87
MAINE																
ACADIA NAT PARK	58	20		.8	.9	1.3	1.7	1.9	2.7	3.8	4.2	4.5	5.0	2.5	1.5	2.80
	59	26		1.0	1.1	1.1	1.2	2.1	2.2	2.3	2.5	2.6	10.7	2.1	1.4	3.05
	60	25	1.0	1.0	1.1	1.1	1.2	2.1	2.2	3.5	4.2	5.8	14.9	2.8	2.1	2.10
	61	25	.8	1.0	1.0	1.1	1.1	1.2	1.3	2.0	2.3	2.7	3.8	1.6	1.5	1.55
	58 61	96		1.0	1.1	1.1	1.2	1.7	2.1	2.3	3.2	4.2	14.9	2.2	1.7	2.38
MARYLAND																
CALVERT COUNTY	59	26		.8	.9	1.6	1.7	2.2	2.5	2.6	3.0	3.8	7.6	2.3	1.5	2.54
	60	25	.7	1.5	1.7	2.2	2.4	3.2	3.4	3.7	4.2	5.3	6.5	3.1	2.7	1.65
	61	25	.9	1.4	1.5	1.7	1.9	2.3	2.5	2.7	3.0	4.2	5.2	2.4	2.2	1.49
	59 61	76		1.0	1.5	1.7	2.1	2.4	2.6	3.0	3.6	4.4	7.6	2.6	2.2	1.96
MASSACHUSETTS																
NANTUCKET	58	26		.8	.9	1.5	1.6	1.8	2.0	2.5	3.2	3.6	4.3	2.0	1.5	3.05
	59	26		.7	.8	1.4	1.5	1.7	1.9	2.0	2.6	3.2	5.0	1.9	1.4	3.02
	58 59	52		.7	.8	1.5	1.6	1.7	1.9	2.4	2.9	3.7	5.0	2.0	1.4	3.00
MICHIGAN																
HURON COUNTY	57	22		.7	.8	.9	1.4	1.5	1.6	1.7	2.3	2.7	3.1	1.5	1.3	2.33
	58	22	.6	.7	.8	1.3	1.3	1.4	1.9	2.2	2.4	2.6	2.7	1.7	1.5	1.63
	59	23	.7	.7	1.2	1.3	1.3	1.5	1.6	2.2	2.7	3.8	7.4	2.2	1.7	1.89
	57 59	67		.7	.8	1.2	1.3	1.5	1.6	2.1	2.4	2.7	7.4	1.8	1.5	1.97
MINNESOTA																
COOK COUNTY	58	23	.7	.7	1.5	1.7	2.2	2.4	2.5	2.6	3.0	4.2	6.6	2.4	2.1	1.78
	59	24	.7	.7	1.4	1.6	1.7	2.3	2.5	2.7	3.2	4.5	6.3	2.4	2.1	1.85
	58 59	47	.7	.7	1.4	1.6	2.1	2.3	2.5	2.7	3.2	4.2	6.6	2.4	2.1	1.81
MISSISSIPPI																
JACKSON COUNTY	58	23	.8	.8	1.5	1.6	1.7	2.3	2.7	3.0	3.9	4.4	8.7	2.6	2.2	1.81
	59	22		.7	.9	1.4	1.5	1.5	1.6	1.6	1.7	2.2	7.4	1.7	1.3	2.37
	60	23	.7	.6	.7	.7	.8	1.0	1.4	1.5	1.6	3.0	3.7	1.4	1.2	1.70
	61	21	.7	.7	.8	.9	1.4	1.5	1.6	1.7	2.3	2.6	4.1	1.6	1.5	1.62
	58 61	89		.7	.8	1.3	1.5	1.5	1.6	1.7	2.4	3.2	8.7	1.8	1.5	1.96

TABLE 2.13 — BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MISSOURI SHANNON COUNTY	58	22	.8	.8	.9	1.8	2.0	2.2	2.3	2.4	2.6	2.7	3.7	2.0	1.9	1.60
	59	24	.7	.7	1.3	1.4	1.6	1.7	1.9	2.2	2.7	3.8	9.7	2.3	1.9	1.80
	61	22	.8	.7	.8	.8	.9	.9	1.2	1.5	1.6	1.7	3.1	1.3	1.1	1.53
	58 61	68	.7	.8	.8	.9	1.5	1.6	1.8	2.2	2.4	2.7	9.7	1.9	1.6	1.73
MONTANA GLACIER NAT PARK	58	26		.1	.7	.8	.8	.9	1.7	1.8	1.9	2.0	3.8	1.3	.8	3.72
	59	26	.9	.7	.8	.8	.8	.8	.9	.9	1.6	1.7	3.7	1.3	1.1	1.53
	60	25		.7	.7	.8	.8	.8	.9	.9	1.7	2.5	3.5	1.2	1.0	2.15
	61	25	.7	.7	.7	.8	.8	.8	.8	.9	.9	1.6	4.0	1.0	.9	1.47
	58 61	102		.7	.7	.8	.8	.8	.9	.9	1.7	2.0	4.0	1.2	1.0	2.25
NEBRASKA THOMAS COUNTY	58	26	1.2	1.9	2.3	2.5	2.6	2.8	3.0	3.2	3.6	3.8	5.1	3.0	2.8	1.38
	59	23		.1	.8	.9	1.5	1.7	1.8	1.9	2.5	4.5	23.5	2.7	1.4	3.63
	60	26	.4	.8	.8	.9	1.4	1.5	1.6	1.6	2.3	3.8	5.5	1.8	1.5	1.89
	61	26	.8	.8	.8	.8	.9	1.5	1.5	1.6	1.7	2.3	3.2	1.4	1.3	1.57
	58 61	101		.8	.8	1.4	1.5	1.7	1.9	2.5	2.9	3.7	23.5	2.2	1.7	2.23
NEVADA WHITE PINE COUNTY	59	21		.1	.7	.8	.8	.9	.9	1.0	1.5	1.7	2.7	1.0	.7	3.23
	60	25		.4	.8	.8	.9	1.0	1.2	1.8	1.9	2.5	2.9	1.3	1.0	2.76
	61	25		.8	.8	.9	.9	1.0	1.2	1.8	1.9	2.3	4.0	1.5	1.2	2.25
	59 61	71		.4	.8	.8	.9	.9	1.0	1.6	1.9	2.2	4.0	1.3	1.0	2.74
NEW HAMPSHIRE COOS COUNTY	59	25	.7	.7	.8	.8	.8	.9	1.4	1.6	1.6	2.2	7.1	1.4	1.2	1.69
	60	24	.6	.6	.7	.7	.8	.8	.8	.9	1.5	1.7	2.4	1.1	1.0	1.49
	61	23	.7	.7	.7	.8	.8	.9	.9	1.0	1.5	1.7	10.0	1.5	1.1	1.76
	59 61	72	.6	.7	.7	.8	.8	.8	.9	1.4	1.6	1.9	10.0	1.3	1.1	1.65
NEW MEXICO COLFAX COUNTY	59	21		.1	.7	.8	.8	.9	1.4	1.5	1.6	1.7	2.5	1.1	.9	2.81
	60	22	.8	.7	.8	.8	.8	.9	.9	1.5	1.7	2.7	8.4	1.6	1.2	1.86
	61	21	.8	.7	.8	.8	.8	.8	.9	.9	1.5	1.6	1.7	1.0	1.0	1.36
	59 61	64		.7	.8	.8	.8	.9	.9	1.5	1.6	1.7	8.4	1.2	1.0	2.06
NEW YORK CAPE VINCENT	60	22	.7	.8	.9	1.6	1.7	2.4	2.5	2.6	2.7	3.2	4.0	2.1	1.9	1.72
	61	25	.8	.8	.8	.8	.9	1.4	1.5	1.6	1.7	3.0	4.8	1.5	1.3	1.73
	60 61	47	.7	.8	.8	.9	1.4	1.6	1.7	2.4	2.6	3.0	4.8	1.8	1.5	1.77
NORTH CAROLINA CAPE HATTERAS	58	23	.8	.8	1.5	1.6	1.6	1.9	2.3	2.4	2.6	3.2	4.9	2.1	1.9	1.56
	59	22		.7	.8	1.2	1.3	1.4	1.5	1.6	2.0	2.3	4.0	1.6	1.3	2.34
	60	24	.7	.7	.8	.9	1.4	1.5	1.6	1.7	2.3	2.7	6.5	1.7	1.4	1.73
	61	24	.7	.8	1.4	1.5	1.5	1.6	1.6	1.7	2.2	2.6	3.1	1.7	1.6	1.47
	58 61	93		.7	.9	1.4	1.5	1.6	1.6	1.9	2.3	2.7	6.5	1.8	1.5	1.80
NORTH DAKOTA WARD COUNTY	58	26		.7	.8	.9	1.6	1.8	2.0	2.6	2.9	3.1	5.0	1.9	1.4	3.02
	59	25		.7	.7	.8	.8	.8	.9	1.0	1.5	1.6	2.0	1.0	.8	2.43
	60	23	.2	.7	.8	.8	.8	.8	.9	.9	1.5	1.6	2.3	1.0	.9	1.59
	61	25	.8	.7	.8	.8	.8	.9	.9	1.5	1.6	1.7	2.3	1.1	1.1	1.47
	58 61	99		.7	.8	.8	.8	.9	1.0	1.5	1.7	2.3	5.0	1.3	1.0	2.22
OHIO SOUTH BASS ISLAND	59	23	.9	1.2	1.6	1.9	2.3	2.7	2.9	3.0	3.2	3.8	5.6	2.6	2.4	1.55
OKLAHOMA CHEROKEE COUNTY	60	24	.7	.7	.8	.9	1.5	1.5	1.6	1.7	2.4	3.2	4.7	1.8	1.5	1.78
	61	25	.7	.8	.8	.9	1.5	1.6	1.9	2.6	3.0	3.8	13.7	2.4	1.8	1.99
	60 61	49	.7	.7	.8	.9	1.5	1.6	1.7	2.3	2.6	3.5	13.7	2.1	1.6	1.88
OREGON CURRY COUNTY	58	20		.7	.8	.9	1.4	1.5	1.6	1.7	2.3	3.0	4.7	1.7	1.3	2.57
	59	24			.1	.7	.8	1.0	1.4	1.6	1.7	2.3	7.5	1.4	.7	4.46
	58 59	44		.1	.7	.8	.9	1.4	1.5	1.6	2.1	3.0	7.5	1.5	.9	3.66

TABLE 2.13—BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
PENNSYLVANIA																
CLARION COUNTY	58	21		.7	.8	1.5	1.6	2.4	2.6	2.9	3.2	4.9	5.4	2.4	1.8	2.79
	59	24	.7	.8	1.3	1.5	1.6	1.8	1.9	2.3	2.6	3.8	5.3	2.1	1.9	1.67
	60	26	.8	1.0	1.5	1.6	1.7	1.9	2.4	2.6	3.8	4.5	6.9	2.5	2.2	1.71
	61	23	.8	.8	1.7	1.8	1.9	2.2	2.4	2.5	2.6	3.0	3.8	2.1	2.0	1.54
	58 61	94		.8	1.4	1.6	1.7	1.9	2.3	2.6	2.9	4.3	6.9	2.3	1.9	1.91
PUERTO RICO																
LOQUILLO MOUNTAIN	59	26		.7	.8	.8	.9	1.0	1.5	1.6	1.7	2.0	9.6	1.6	1.2	2.37
	60	24	.8	.7	.8	.9	1.0	1.7	1.8	1.8	1.9	2.0	2.7	1.5	1.4	1.46
	61	26	.8	.7	.8	.8	.8	.8	.9	.9	1.0	1.7	4.0	1.1	1.0	1.47
	59 61	76		.7	.8	.8	.8	.9	1.4	1.6	1.8	1.9	9.6	1.4	1.2	1.82
RHODE ISLAND																
WASHINGTON COUNTY	59	25	.7	.8	1.0	1.5	1.6	1.9	2.1	2.8	3.1	4.5	8.3	2.4	1.9	1.86
	60	26	.7	.7	.8	1.3	1.4	1.6	1.7	2.0	2.3	3.2	4.8	1.8	1.6	1.72
	61	24	.7	.7	.8	.9	1.5	1.6	1.7	2.9	3.2	4.5	9.0	2.3	1.8	2.03
	59 61	75	.7	.7	.9	1.4	1.5	1.6	1.9	2.4	3.0	4.0	9.0	2.2	1.8	1.87
SOUTH CAROLINA																
RICHLAND COUNTY	59	24		.7	1.5	1.6	2.0	2.4	2.5	3.0	3.5	5.3	5.6	2.6	2.0	2.65
	60	26	.7	.9	1.6	1.8	1.9	2.2	2.6	3.2	4.2	4.7	5.3	2.7	2.3	1.76
	61	23	.9	.8	1.7	1.8	1.9	2.3	2.5	2.7	4.5	7.4	8.6	3.2	2.5	2.02
	59 61	73		.8	1.5	1.7	1.9	2.3	2.5	3.0	4.0	5.3	8.6	2.8	2.3	2.14
SOUTH DAKOTA																
BLACK HILLS	58	21		1.0	1.1	1.2	2.1	2.2	2.8	3.1	3.8	6.0	8.7	2.8	2.0	2.91
TENNESSEE																
STEWART COUNTY	59	22	.8	.8	1.5	1.7	2.0	2.4	2.6	2.7	3.5	5.3	7.3	2.7	2.3	1.83
UTAH																
BRYCE CANYON PARK	58	23	.8	.8	.8	.9	1.5	1.8	2.0	2.7	3.2	4.5	6.5	2.3	1.8	1.95
	59	24		.1	.7	.8	.8	.8	.9	1.4	1.6	2.3	8.3	1.4	.7	3.94
	58 59	47		.7	.8	.8	.9	1.0	1.6	1.9	2.7	4.2	8.3	1.8	1.2	3.21
VERMONT																
ORANGE COUNTY	60	25	1.0	1.0	1.0	1.7	1.8	1.9	1.9	2.0	3.0	4.5	5.8	2.2	2.0	1.64
	61	25	.8	.8	.9	1.0	1.5	1.6	1.7	1.9	2.0	4.2	5.0	1.9	1.6	1.69
	60 61	50	.8	.9	1.0	1.4	1.7	1.8	1.9	1.9	2.7	4.0	5.8	2.1	1.8	1.67
VIRGINIA																
SHENANDOAH PARK	58	25	.8	.9	1.0	1.5	1.6	1.8	2.0	2.5	2.6	3.5	6.2	2.1	1.9	1.69
	59	26		.7	.8	.9	1.2	1.6	1.8	1.8	1.9	2.0	3.6	1.5	1.2	2.75
	60	26	.5	.8	1.0	1.5	1.6	1.8	1.9	1.9	2.0	3.4	3.9	1.9	1.7	1.65
	61	24	.8	.7	.8	.9	1.0	1.2	1.7	2.2	2.7	3.1	3.4	1.7	1.5	1.73
	58 61	101		.8	.9	1.0	1.5	1.7	1.8	2.0	2.5	3.1	6.2	1.8	1.5	2.01
WASHINGTON																
CLALLAM COUNTY	61	21	.7	.6	.6	.7	.7	.8	.8	.9	1.6	1.7	6.6	1.2	1.0	1.74
WEST VIRGINIA																
WEBSTER COUNTY	58	23	.9	1.4	1.6	1.7	1.9	2.2	2.3	2.5	2.6	4.5	5.8	2.4	2.2	1.51
	59	22		.6	.7	.9	1.2	1.3	1.4	1.5	1.6	2.3	2.8	1.3	1.1	2.26
	58 59	45		.7	1.2	1.3	1.5	1.6	1.8	2.2	2.4	3.0	5.8	1.9	1.6	2.06
WISCONSIN																
DOOR COUNTY	58	20	.8	.8	1.4	1.7	1.9	2.2	2.4	2.5	2.6	2.7	3.4	2.1	1.9	1.53
	60	24	.7	.6	.7	.8	1.2	1.3	1.3	1.4	1.6	2.1	2.3	1.3	1.2	1.51
	58 60	44	.7	.7	.8	1.2	1.3	1.5	1.7	2.1	2.3	2.6	3.4	1.6	1.5	1.61
WYOMING																
YELLOWSTONE PARK	61	26	.5	.7	.7	.8	.8	.8	.8	.9	.9	.9	1.8	.9	.9	1.30

TABLE 2.14—BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
ALABAMA BALDWIN COUNTY	WINTER	13		.1	.7	1.0	1.0	1.6	1.7	2.7	3.2	6.3	7.5	2.4	1.4	3.57
	SPRING	11	.6	.6	.8	.8	.9	1.3	1.3	1.4	1.4	1.7	1.8	1.2	1.2	1.40
	SUMMER	13	.9	.9	1.6	1.7	1.8	1.9	2.0	2.3	2.7	4.5	7.6	2.5	2.1	1.70
	AUTUMN	8	.8	.8	.8	.8	.9	1.4	1.7	2.0	2.0	2.3	6.1	2.0	1.5	1.97
	58 59	45		.7	.8	1.2	1.3	1.5	1.7	1.9	2.5	4.5	7.6	2.0	1.5	2.26
ALASKA PT WORONZOF	WINTER	26		.1	.8	.9	1.0	1.7	1.8	1.9	2.0	3.2	4.6	1.6	1.1	3.46
	SPRING	24	.8	.8	.9	.9	1.0	1.0	1.7	1.8	1.9	2.0	3.1	1.4	1.3	1.48
	SUMMER	25	.8	.8	.9	1.0	1.6	1.8	1.9	2.3	2.8	3.1	3.9	1.9	1.7	1.66
	AUTUMN	25	.8	.8	.8	.9	.9	1.0	1.0	1.9	2.3	3.2	5.8	1.7	1.4	1.77
	58 61	100		.8	.9	.9	1.0	1.6	1.8	1.9	2.0	3.0	5.8	1.7	1.4	2.16
ARIZONA GRAND CANYON PK	WINTER	18		.1	.7	.8	.8	.8	.9	.9	1.0	1.2	4.4	1.0	.7	2.91
	SPRING	19		.7	.8	.8	.9	.9	1.1	1.4	2.0	2.5	3.3	1.3	1.0	2.43
	SUMMER	15		.1	.8	.9	.9	1.9	1.9	2.4	2.6	3.5	3.6	1.7	1.1	3.86
	AUTUMN	18		.7	.8	.8	.8	.9	1.7	1.9	2.0	2.3	4.6	1.5	1.2	2.58
	59 61	70		.7	.7	.8	.8	.9	1.1	1.8	2.0	2.6	4.6	1.4	1.0	2.87
MARICOPA COUNTY	WINTER	12	.7	.7	.7	.8	.9	1.5	1.6	1.7	2.3	3.8	4.6	1.8	1.5	1.88
	SPRING	14	.8	.8	.9	.9	1.7	1.8	1.9	2.4	2.6	3.2	3.3	1.9	1.7	1.68
	SUMMER	12	.3	.3	.7	.8	.9	.9	1.6	1.7	2.0	2.5	2.6	1.4	1.2	1.85
	AUTUMN	14	.9	.8	.9	1.0	1.6	1.7	1.8	1.9	2.0	3.8	4.0	1.9	1.7	1.62
	60 61	52	.3	.7	.8	.9	1.5	1.6	1.8	1.9	2.4	3.2	4.6	1.7	1.5	1.75
ARKANSAS MONTGOMERY CO	WINTER	18	.9	.8	.8	.8	.9	1.8	1.9	2.0	2.7	3.2	4.6	1.8	1.6	1.76
	SPRING	19	.9	.9	1.2	1.8	1.9	2.0	2.7	3.0	3.8	4.5	9.1	2.7	2.3	1.84
	SUMMER	21		.1	1.0	1.7	1.9	2.7	3.0	3.2	3.8	4.5	17.3	3.1	1.8	3.90
	AUTUMN	18	.9	.9	1.5	1.6	1.7	2.0	2.5	2.7	3.2	4.2	4.5	2.4	2.2	1.68
	59 61	76		.8	.9	1.6	1.8	1.9	2.5	2.9	3.5	4.2	17.3	2.6	1.9	2.36
CALIFORNIA HUMBOLDT COUNTY	WINTER	10	.7	.7	.9	1.6	1.7	2.3	3.5	3.8	4.9	5.3	7.6	3.2	2.4	2.23
	SPRING	10	.7	.7	.7	1.3	1.3	1.4	1.7	2.7	7.4	12.2	14.8	4.3	2.4	3.04
	SUMMER	12		.1	.6	.7	.7	.9	1.3	1.4	2.7	3.2	6.6	1.7	1.1	3.32
	AUTUMN	11	.7	.7	1.7	1.8	1.9	2.7	4.5	6.3	7.4	12.2	16.7	5.0	3.3	2.60
	60 61	43		.6	.7	1.3	1.5	1.9	2.4	3.5	5.3	8.8	16.7	3.5	2.1	2.99
COLORADO MONTEZUMA COUNTY	WINTER	23		.1	.7	.8	.8	.8	.9	.9	1.6	1.9	3.7	1.1	.8	2.66
	SPRING	26		.7	.7	.8	.8	.9	.9	1.0	1.6	1.8	2.0	1.1	.9	1.99
	SUMMER	25		.7	.8	.9	.9	1.0	1.7	1.9	1.9	2.9	3.2	1.4	1.1	2.80
	AUTUMN	23		.1	.8	.8	.8	.9	.9	1.5	1.6	1.8	1.9	1.1	.8	2.62
	58 61	97		.7	.7	.8	.8	.9	.9	1.5	1.7	1.9	3.7	1.2	.9	2.49
CONNECTICUT LITCHFIELD CO	WINTER	10	1.7	1.7	1.9	2.0	2.3	2.4	2.5	2.6	2.7	5.3	11.8	3.5	2.8	1.80
	SPRING	9	.9	.9	1.8	1.9	2.0	3.2	3.2	3.4	3.6	3.8	4.4	2.8	2.5	1.68
	SUMMER	13		.1	2.0	2.7	3.2	3.4	3.6	3.7	3.8	4.5	5.3	3.1	2.2	3.43
	AUTUMN	13	.7	.7	1.6	1.7	1.8	2.0	2.5	2.7	3.2	6.9	6.8	2.8	2.3	1.92
	58 59	45		1.4	1.7	1.9	2.3	2.6	3.0	3.5	3.8	5.0	11.8	3.0	2.4	2.25
DELAWARE KENT COUNTY	WINTER	9	.9	.9	2.3	2.5	2.7	3.2	3.2	3.5	3.8	4.5	7.7	3.3	2.9	1.78
	SPRING	14	.9	.9	1.6	1.7	2.3	2.4	2.5	2.7	3.2	5.8	6.0	2.8	2.4	1.75
	SUMMER	11	1.5	1.5	1.6	1.6	1.7	3.6	3.8	4.5	4.9	5.3	5.6	3.3	2.9	1.69
	AUTUMN	13	.8	.9	1.5	1.6	1.6	2.3	3.2	3.8	4.5	6.3	6.5	3.1	2.6	1.89
	59 61	47	.8	1.4	1.5	1.7	2.3	2.6	3.2	3.7	4.8	5.7	7.7	3.1	2.7	1.76
FLORIDA FLORIDA KEYS	WINTER	19	.3	.6	.7	.8	.9	1.4	1.6	2.3	2.7	3.8	6.4	1.9	1.4	2.22
	SPRING	15	.7	.7	.7	.9	1.0	1.7	2.2	2.4	2.6	3.0	3.1	1.8	1.5	1.81
	SUMMER	17		.3	.6	.6	.7	.7	.7	.9	1.2	1.9	2.6	.9	.7	2.36
	AUTUMN	17	.7	.6	.7	.7	1.2	1.5	1.6	1.8	1.9	1.9	4.2	1.5	1.3	1.68
	58 61	68		.6	.6	.7	.8	1.1	1.5	1.8	2.2	2.7	6.4	1.5	1.2	2.13

TABLE 2.14—BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE—Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GEORGIA																
CHATHAM COUNTY	WINTER	12	1.8	2.0	2.7	3.5	3.8	4.9	5.3	6.3	7.4	10.3	19.9	6.1	4.9	1.92
	SPRING	13	.8	.9	1.1	1.2	1.7	2.0	2.2	2.3	2.5	3.5	3.7	2.0	1.9	1.60
	SUMMER	13		.1	.7	1.7	2.2	2.5	2.7	3.2	3.4	3.8	4.4	2.3	1.3	4.67
	AUTUMN	12	.7	.7	.7	1.2	1.6	1.7	2.1	2.2	2.7	4.5	8.7	2.4	1.8	2.12
	58 59	50		.7	1.2	1.7	2.1	2.3	2.6	3.4	3.8	6.3	19.9	3.2	2.1	2.85
HAWAII																
KAHALUU	WINTER	20	.7	1.0	1.8	2.0	2.3	2.4	2.6	2.7	3.5	4.8	5.1	2.7	2.4	1.64
	SPRING	19	.9	.9	1.2	1.7	2.1	2.3	2.4	2.7	3.4	3.7	4.5	2.3	2.1	1.61
	SUMMER	19		.8	.9	1.7	1.9	2.3	2.4	2.6	2.9	3.2	4.1	2.2	1.7	2.64
	AUTUMN	20	.9	.8	.9	1.0	1.6	2.0	2.4	2.5	2.6	2.7	3.9	2.0	1.8	1.67
	59 61	78		.8	1.2	1.6	2.0	2.3	2.5	2.6	3.0	3.7	5.1	2.3	2.0	1.91
WAIMANALO	WINTER	5	.8	.8	.8	.8	.8	.9	.9	1.7	1.7	2.7	2.4	1.3	1.2	1.65
	SPRING	6	.8	.8	.8	.9	.9	1.7	2.0	2.0	3.2	3.2	4.9	2.2	1.8	2.03
	SUMMER	6	1.6	1.5	1.5	1.6	1.6	1.6	1.7	1.7	2.7	2.7	4.0	2.1	2.0	1.45
	AUTUMN	6	1.6	1.7	1.7	1.9	1.9	2.0	2.7	2.7	3.2	3.2	4.3	2.4	2.3	1.45
	57 57	23	.8	.8	.9	1.5	1.6	1.7	1.9	2.4	2.7	4.2	4.9	2.1	1.8	1.70
IDAHO																
BUTTE COUNTY	WINTER	24		.1	.8	.8	.8	.9	.9	1.0	1.0	1.9	3.1	1.1	.9	2.57
	SPRING	24			.1	.8	.8	.9	.9	1.0	1.8	2.0	3.8	1.1	.6	4.04
	SUMMER	23	.9	.8	.9	.9	.9	1.0	1.7	1.8	1.9	3.0	3.5	1.5	1.4	1.59
	AUTUMN	19	.9	.8	.8	.9	.9	1.0	1.0	1.8	1.9	2.0	3.6	1.4	1.3	1.54
	58 61	90		.7	.8	.8	.9	.9	1.0	1.7	1.8	2.0	3.8	1.3	1.0	2.62
ILLINOIS																
SANGAMON COUNTY	WINTER	11	.8	.8	.9	1.7	2.5	3.4	3.6	3.8	5.3	5.8	6.1	3.2	2.7	1.97
	SPRING	14	1.9	2.0	2.5	2.6	3.0	3.2	3.4	3.8	4.5	7.4	8.0	3.9	3.5	1.55
	SUMMER	11	.8	.8	.8	.9	1.6	2.5	2.7	3.0	3.2	4.5	5.2	2.4	2.0	1.96
	AUTUMN	11	.8	.9	1.5	1.6	1.7	2.6	2.7	3.8	4.5	6.3	18.2	4.1	2.8	2.28
	58 59	47	.8	.9	1.6	2.3	2.5	2.7	3.2	3.6	4.5	6.0	18.2	3.4	2.7	1.95
INDIANA																
PARKE COUNTY	WINTER	21	1.7	1.8	1.9	2.1	2.3	3.5	4.5	4.9	5.3	6.3	7.1	3.7	3.3	1.64
	SPRING	19	1.1	1.2	2.0	2.4	2.7	3.2	3.5	4.0	4.3	5.3	6.2	3.2	2.9	1.63
	SUMMER	18	.9	1.8	1.9	1.9	2.3	2.8	3.0	3.1	3.1	4.2	5.3	2.7	2.6	1.48
	AUTUMN	19	1.0	1.8	1.9	2.0	2.9	3.0	3.1	3.5	4.2	4.9	7.5	3.2	2.9	1.58
	58 61	77	.9	1.7	1.9	2.1	2.7	3.0	3.2	3.9	4.5	5.2	7.5	3.2	2.9	1.59
IOWA																
DELAWARE COUNTY	WINTER	19	.9	.9	1.0	1.8	1.9	1.9	2.0	2.7	3.2	4.8	4.8	2.4	2.1	1.71
	SPRING	17	.9	.9	1.0	1.7	1.8	1.9	1.9	2.0	3.0	3.2	6.6	2.2	1.9	1.67
	SUMMER	20	.9	.8	1.0	1.8	1.9	2.0	2.7	2.9	3.1	3.8	3.9	2.3	2.1	1.62
	AUTUMN	21	.8	.8	.9	1.0	1.0	1.7	1.9	1.9	2.3	3.2	4.5	1.8	1.6	1.70
	59 61	77	.8	.9	1.0	1.7	1.8	1.9	2.0	2.5	3.0	3.8	6.6	2.2	1.9	1.68
KENTUCKY																
PULASKI COUNTY	WINTER	13	1.4	1.4	2.1	2.2	2.3	2.7	3.2	4.0	4.2	4.5	10.0	3.4	3.0	1.64
	SPRING	12	1.3	1.3	1.4	1.6	1.7	2.0	2.2	2.3	3.0	3.2	4.7	2.2	2.1	1.44
	SUMMER	14	1.4	1.4	2.7	2.8	3.0	3.0	3.1	3.8	4.2	4.9	4.9	3.3	3.1	1.38
	AUTUMN	10	1.4	1.3	1.3	1.4	1.9	2.0	2.1	2.2	2.3	2.7	2.9	2.0	1.9	1.32
	58 59	49	1.3	1.3	1.6	2.0	2.2	2.5	2.8	3.0	3.8	4.4	10.0	2.8	2.5	1.53
LOUISANA																
ST TAMMANY PAR	WINTER	6	1.6	1.5	1.5	1.6	1.6	1.7	2.5	2.5	2.7	2.7	3.4	2.2	2.1	1.37
	SPRING	6	.9	.8	.8	.9	.9	1.0	1.9	1.9	2.0	2.0	2.1	1.5	1.4	1.59
	SUMMER	7	1.7	1.5	1.5	1.6	1.7	2.0	2.0	2.7	3.8	3.8	5.1	2.5	2.3	1.54
	AUTUMN	6	.8	.9	.9	3.5	3.5	3.8	4.5	4.5	6.3	6.3	12.2	4.9	3.7	2.43
	59 59	25	.8	.9	1.4	1.6	1.7	2.0	2.5	3.4	3.7	5.3	12.2	2.8	2.2	1.87
MAINE																
ACADIA NAT PARK	WINTER	22		.9	1.0	1.1	1.2	1.3	1.7	2.0	2.7	3.8	14.9	2.4	1.5	2.78
	SPRING	23	.9	.9	1.0	1.1	1.1	1.1	1.2	1.2	2.4	2.7	4.1	1.6	1.4	1.60
	SUMMER	24		.1	1.1	1.2	2.1	2.2	2.7	3.6	4.2	5.3	5.6	2.7	1.8	3.49
	AUTUMN	27	1.1	1.1	1.1	1.2	1.4	2.1	2.2	2.3	2.6	3.8	10.7	2.3	1.9	1.70
	58 61	96		1.0	1.1	1.1	1.2	1.7	2.1	2.3	3.2	4.2	14.9	2.2	1.7	2.38

TABLE 2.14 — BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE — Continued

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MARYLAND																
CALVERT COUNTY	WINTER	18	.7	1.5	1.6	1.7	2.3	2.7	3.0	3.2	3.5	4.2	5.2	2.7	2.5	1.60
	SPRING	20	.9	.9	1.5	1.6	2.1	2.3	2.6	3.2	3.6	4.5	6.5	2.7	2.3	1.71
	SUMMER	18		.8	1.0	1.4	1.6	2.2	2.4	2.5	2.6	3.2	4.2	2.0	1.6	2.68
	AUTUMN	20	.7	1.4	1.7	2.0	2.2	2.4	2.7	3.5	4.5	5.0	7.6	2.9	2.6	1.72
	59 61	76		1.0	1.5	1.7	2.1	2.4	2.6	3.0	3.6	4.4	7.6	2.6	2.2	1.96
MASSACHUSETTS																
NANTUCKET	WINTER	13	.8	.8	.9	1.5	1.5	1.6	1.7	2.4	2.6	3.2	3.6	1.9	1.7	1.65
	SPRING	12			.1	.9	1.0	1.6	1.7	2.0	3.8	4.5	5.0	1.9	.8	5.94
	SUMMER	14		.1	1.8	1.8	1.9	2.0	2.3	2.7	3.0	3.5	3.7	2.2	1.7	2.95
	AUTUMN	13	.8	.8	.9	.9	1.5	1.6	1.7	1.8	1.9	4.5	4.9	1.9	1.6	1.75
	58 59	52		.7	.8	1.5	1.6	1.7	1.9	2.4	2.9	3.7	5.0	2.0	1.4	3.00
MICHIGAN																
HURON COUNTY	WINTER	15	.7	.9	1.3	1.4	1.4	1.6	1.7	2.0	2.4	2.7	7.4	2.0	1.7	1.74
	SPRING	15	.7	.7	.7	1.2	1.2	1.3	1.4	2.2	2.3	3.0	3.1	1.6	1.4	1.66
	SUMMER	17	.8	.8	.9	1.4	1.5	1.6	1.6	1.7	2.0	2.2	2.4	1.5	1.5	1.39
	AUTUMN	20		.6	.8	.9	1.3	1.4	2.3	2.5	2.7	3.2	6.9	2.0	1.4	2.80
	57 59	67		.7	.8	1.2	1.3	1.5	1.6	2.1	2.4	2.7	7.4	1.8	1.5	1.97
MINNESOTA																
COOK COUNTY	WINTER	13	.7	.6	.7	.8	.9	1.6	1.7	2.1	2.2	2.7	3.7	1.6	1.4	1.78
	SPRING	12	.7	.7	1.5	1.7	2.4	2.5	2.6	2.7	3.2	3.8	6.3	2.6	2.3	1.73
	SUMMER	12	1.6	1.6	1.7	2.2	2.3	2.5	2.7	3.2	4.3	4.5	4.7	2.9	2.8	1.43
	AUTUMN	10	.7	.7	.9	1.7	2.4	2.5	2.6	2.7	3.2	4.5	6.6	2.7	2.2	1.97
	58 59	47	.7	.7	1.4	1.6	2.1	2.3	2.5	2.7	3.2	4.2	6.6	2.4	2.1	1.81
MISSISSIPPI																
JACKSON COUNTY	WINTER	21		.7	.8	.9	1.3	1.6	2.1	2.3	3.2	4.3	8.7	2.1	1.5	2.82
	SPRING	24	.7	.6	.7	.7	.9	1.4	1.5	1.6	1.6	1.7	3.1	1.3	1.2	1.58
	SUMMER	22	.8	.8	.9	1.4	1.5	1.6	1.6	1.7	2.5	3.2	3.9	1.8	1.6	1.60
	AUTUMN	22	.7	.9	1.4	1.5	1.6	1.6	1.7	2.2	3.0	3.8	7.4	2.2	1.9	1.68
	58 61	89		.7	.8	1.3	1.5	1.5	1.6	1.7	2.4	3.2	8.7	1.8	1.5	1.96
MISSOURI																
SHANNON COUNTY	WINTER	15	.8	.8	.9	1.4	1.7	2.0	2.1	2.3	2.7	3.8	4.6	2.0	1.8	1.72
	SPRING	18	.8	.8	.8	.8	.9	1.5	1.6	2.3	2.5	3.2	9.7	2.1	1.5	2.03
	SUMMER	17	.7	.9	1.4	1.5	1.6	1.7	1.9	2.4	2.5	2.6	2.7	1.9	1.8	1.49
	AUTUMN	18	.7	.7	.8	.8	.9	1.5	1.7	1.9	2.0	2.3	3.1	1.5	1.4	1.62
	58 61	68	.7	.8	.8	.9	1.5	1.6	1.8	2.2	2.4	2.7	9.7	1.9	1.6	1.73
MONTANA																
GLACIER NAT PARK	WINTER	27		.7	.7	.8	.8	.8	.8	.9	.9	.9	1.9	.9	.7	2.25
	SPRING	26		.6	.7	.7	.8	.8	.8	.9	1.6	2.0	3.7	1.2	.9	2.62
	SUMMER	25	.7	.8	.8	.9	1.0	1.6	1.7	1.9	2.0	3.5	4.0	1.7	1.5	1.70
	AUTUMN	24		.7	.7	.8	.8	.8	.9	.9	1.6	1.9	3.4	1.1	.9	2.10
	58 61	102		.7	.7	.8	.8	.8	.9	.9	1.7	2.0	4.7	1.2	1.0	2.25
NEBRASKA																
THOMAS COUNTY	WINTER	25	.4	.8	.9	1.6	1.8	2.0	2.3	3.0	3.4	4.2	4.9	2.3	1.9	1.94
	SPRING	26		.8	.8	1.2	1.5	1.6	1.7	2.4	2.7	3.2	5.5	2.0	1.5	2.44
	SUMMER	28		.8	.8	.9	1.5	1.6	1.6	1.9	2.3	2.7	5.1	1.8	1.4	2.31
	AUTUMN	22	.8	.8	.9	1.5	1.6	1.7	2.4	2.7	3.1	3.8	23.5	3.0	2.0	2.19
	58 61	101		.8	.8	1.4	1.5	1.7	1.9	2.5	2.9	3.7	23.5	2.2	1.7	2.23
NEVADA																
WHITE PINE CO	WINTER	18		.1	.1	.4	.8	.9	1.0	1.0	1.0	1.9	2.4	1.0	.6	4.04
	SPRING	18		.7	.8	.8	.9	.9	1.0	1.0	1.2	1.9	2.1	1.1	.9	2.22
	SUMMER	16		.8	.8	.9	1.2	1.6	1.8	1.9	2.0	2.3	4.0	1.7	1.3	2.68
	AUTUMN	19	.8	.7	.8	.8	.9	1.0	1.0	1.7	1.9	2.5	2.9	1.4	1.3	1.59
	59 61	71		.4	.8	.8	.9	.9	1.0	1.6	1.9	2.2	4.0	1.3	1.0	2.74
NEW HAMPSHIRE																
COOS COUNTY	WINTER	17	.7	.7	.7	.7	.8	.8	.8	.9	.9	1.6	2.4	1.0	.9	1.41
	SPRING	19	.7	.7	.8	.8	.8	.9	.9	1.5	1.7	2.0	7.1	1.5	1.2	1.77
	SUMMER	17	.6	.7	.7	.8	.8	.9	.9	1.5	1.6	1.6	2.[illegible]	1.1	1.0	1.46
	AUTUMN	19	.7	.7	.8	.8	.8	.9	.9	1.4	1.6	1.7	10.0	1.6	1.2	1.87
	59 61	72	.6	.7	.7	.8	.8	.8	.9	1.4	1.6	1.9	10.0	1.3	1.1	1.65

Location: Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NEW MEXICO																
COLFAX COUNTY	WINTER	17	.8	.7	.8	.8	.8	.9	.9	1.5	1.6	1.7	2.4	1.2	1.1	1.53
	SPRING	18	.8	.7	.8	.8	.8	.9	.9	1.4	1.5	1.6	1.6	1.1	1.0	1.40
	SUMMER	15		.1	.7	.8	.8	.9	.9	1.5	1.6	1.7	2.8	1.1	.8	3.26
	AUTUMN	14	.8	.7	.8	.8	.8	.9	.9	1.6	1.7	2.7	8.4	1.7	1.2	2.03
	59 61	64		.7	.8	.8	.8	.9	.9	1.5	1.6	1.7	8.4	1.2	1.0	2.06
NEW YORK																
CAPE VINCENT	WINTER	9	.8	.7	.8	.8	.9	.9	.9	1.5	1.6	1.7	4.0	1.4	1.2	1.74
	SPRING	12	.7	.7	.8	.9	1.5	1.6	1.6	1.7	2.6	2.7	4.0	1.7	1.5	1.74
	SUMMER	13	.8	.8	1.5	1.6	1.7	2.4	2.5	2.6	2.7	3.2	4.8	2.3	2.0	1.68
	AUTUMN	13	.8	.7	[illegible]	.8	.9	1.6	1.7	2.4	2.6	3.0	3.2	1.7	1.4	1.80
	60 61	47	.7	.8	.8	.9	1.4	1.6	1.7	2.4	2.6	3.0	4.8	1.8	1.5	1.77
NORTH CAROLINA																
CAPE HATTERAS	WINTER	26	.7	.9	1.2	1.5	1.6	1.9	2.3	2.5	2.7	3.2	6.5	2.2	1.9	1.67
	SPRING	25	.8	.8	.9	1.4	1.5	1.6	1.6	1.7	1.7	2.3	3.0	1.6	1.5	1.45
	SUMMER	21		.7	.9	1.4	1.5	1.6	1.7	2.2	2.4	2.7	4.9	1.9	1.5	2.48
	AUTUMN	21	.7	.7	.8	.9	1.3	1.4	1.5	1.6	1.7	2.4	2.4	1.4	1.3	1.52
	58 61	93		.7	.9	1.4	1.5	1.6	1.6	1.9	2.3	2.7	6.5	1.8	1.5	1.80
NORTH DAKOTA																
WARD COUNTY	WINTER	23		.7	.8	.8	.8	.9	.9	1.0	1.6	2.3	5.0	1.3	1.0	2.32
	SPRING	27		.7	.8	.8	.8	.9	.9	1.5	1.7	2.4	2.8	1.2	1.0	2.14
	SUMMER	25		.7	.8	.8	.8	.9	1.5	1.6	1.9	2.9	2.8	1.3	1.0	2.38
	AUTUMN	24		.7	.8	.8	.9	.9	1.4	1.6	1.7	2.0	2.8	1.2	1.0	2.15
	58 61	99		.7	.8	.8	.8	.9	1.0	1.5	1.7	2.3	5.0	1.3	1.0	2.22
OHIO																
SOUTH BASS IS	WINTER	4	1.1	.1	1.2	1.2	1.6	1.6	1.6	1.7	1.7	3.8	3.6	1.9	1.7	1.67
	SPRING	6	.9	.9	.9	1.6	1.6	1.7	2.5	2.5	2.7	2.7	4.2	2.3	2.0	1.69
	SUMMER	7	1.9	2.0	2.0	2.8	3.0	3.1	3.1	3.2	3.8	3.8	5.6	3.3	3.2	1.38
	AUTUMN	6	2.0	2.0	2.0	2.3	2.3	2.7	3.0	3.0	3.2	3.2	3.8	2.7	2.6	1.26
	59 59	23	.9	1.2	1.6	1.9	2.3	2.7	2.9	3.0	3.2	3.8	5.6	2.6	2.4	1.55
OKLAHOMA																
CHEROKEE COUNTY	WINTER	11	.7	.7	.7	.8	.9	1.7	2.0	2.5	2.7	3.2	13.7	2.7	1.8	2.37
	SPRING	13	1.5	1.4	1.6	1.6	1.6	2.0	2.3	2.5	2.7	3.8	4.3	2.3	2.2	1.42
	SUMMER	13	.7	.7	.8	.8	.8	.9	.9	1.7	2.7	3.8	4.5	1.6	1.3	1.95
	AUTUMN	12	.7	.7	.8	.9	1.4	1.5	1.6	1.6	1.7	2.7	4.7	1.7	1.5	1.70
	60 61	49	.7	.7	.8	.9	1.5	1.6	1.7	2.3	2.6	3.5	13.7	2.1	1.6	1.88
OREGON																
CURRY COUNTY	WINTER	9		.1	.7	.8	.8	.9	.9	1.5	1.6	1.6	1.6	1.0	.8	2.98
	SPRING	12		.1	.6	.7	1.4	1.6	1.7	2.2	2.7	3.0	3.2	1.7	1.2	3.15
	SUMMER	13			.1	.1	.8	1.0	1.5	1.5	1.6	1.7	2.3	1.0	.5	5.03
	AUTUMN	10	.7	.7	.8	.9	1.5	1.6	1.7	2.3	3.8	5.3	7.5	2.5	1.9	2.19
	58 59	44		.1	.7	.8	.9	1.4	1.5	1.6	2.1	3.0	7.5	1.5	.9	3.66
PENNSYLVANIA																
CLARION COUNTY	WINTER	22	.7	.9	1.6	2.2	2.4	2.7	3.0	3.2	4.5	5.0	6.9	2.9	2.6	1.75
	SPRING	24		.7	.8	.9	1.6	1.7	2.0	2.5	2.6	3.2	5.3	2.0	1.5	2.48
	SUMMER	25	.7	1.3	1.4	1.6	1.7	1.9	2.0	2.4	2.6	3.5	4.3	2.1	1.9	1.51
	AUTUMN	23	.8	.8	1.0	1.7	1.8	1.9	2.0	2.3	2.6	4.5	5.4	2.2	1.9	1.71
	58 61	94		.8	1.4	1.6	1.7	1.9	2.3	2.6	2.9	4.3	6.9	2.3	1.9	1.91
PUERTO RICO																
LOQUILLO MTS	WINTER	19	.9	.7	.8	.8	.9	.9	1.0	1.5	1.6	1.7	1.8	1.2	1.2	1.37
	SPRING	19	.8	.7	.8	.8	.9	.9	1.0	1.7	1.8	1.9	2.0	1.3	1.2	1.46
	SUMMER	19	.8	.7	.8	.8	.9	1.0	1.8	1.9	2.7	3.2	9.6	2.0	1.5	2.01
	AUTUMN	19		.7	.8	.8	.8	.9	.9	1.5	1.6	1.8	1.9	1.1	1.0	2.23
	59 61	76		.7	.8	.8	.8	.9	1.4	1.6	1.8	1.9	9.6	1.4	1.2	1.82
RHODE ISLAND																
WASHINGTON CO	WINTER	18	.7	.7	.9	1.3	1.5	1.6	1.7	2.9	3.0	3.8	8.3	2.3	1.8	2.00
	SPRING	19	.7	.8	.9	1.3	1.4	1.5	1.6	1.7	2.7	3.8	5.9	2.0	1.6	1.83
	SUMMER	19	.9	1.0	1.5	1.6	1.8	2.0	2.3	2.7	3.2	4.5	9.0	2.6	2.2	1.74
	AUTUMN	19	.7	.7	.7	.8	1.4	1.7	2.1	2.2	2.3	3.2	3.9	1.8	1.5	1.85
	59 61	75	.7	.7	.9	1.4	1.5	1.6	1.9	2.4	3.0	4.0	9.0	2.2	1.8	1.87

TABLE 2.14—BENZENE SOLUBLE ORGANIC MATTER: NONURBAN STATIONS, SEASONAL AND CUMULATIVE—Continued

Location Region, State or Station	Seasons	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
SOUTH CAROLINA																
RICHLAND COUNTY	WINTER	17	1.5	1.7	2.1	2.3	3.2	3.8	4.5	5.0	5.8	6.3	8.6	4.1	3.6	1.68
	SPRING	19	.8	.9	1.5	1.6	1.7	1.9	1.9	2.4	2.5	2.7	3.6	2.1	1.9	1.47
	SUMMER	17		.7	.8	.9	1.8	2.0	2.3	3.2	3.8	4.5	7.4	2.5	1.7	3.20
	AUTUMN	20	.7	.8	1.6	1.8	1.9	2.0	2.5	2.6	4.2	4.9	6.3	2.7	2.3	1.83
	59 61	73		.8	1.5	1.7	1.9	2.3	2.5	3.0	4.0	5.3	8.6	2.8	2.3	2.14
SOUTH DAKOTA																
BLACK HILLS	WINTER	6	1.0	1.0	1.0	1.1	1.1	1.2	2.1	2.1	2.2	2.2	2.2	1.6	1.5	1.47
	SPRING	6	1.1	1.1	1.1	1.2	1.2	3.2	3.8	3.8	5.8	5.8	5.8	3.4	2.8	2.11
	SUMMER	6	2.1	2.3	2.3	2.9	2.9	3.0	3.2	3.2	6.3	6.3	8.7	4.4	3.9	1.69
	AUTUMN	3			.1	.1	.1	1.2	1.2	1.2	1.2	2.3	2.2	1.1	.5	7.59
	58 58	21		1.0	1.1	1.2	2.1	2.2	2.8	3.1	3.8	6.0	8.7	2.8	2.0	2.91
TENNESSEE																
STEWART COUNTY	WINTER	6	1.8	1.9	1.9	2.0	2.0	3.2	5.3	5.3	6.9	6.9	7.3	4.4	3.8	1.88
	SPRING	6	.8	.8	.8	.9	.9	1.6	1.7	1.7	2.7	2.7	3.3	1.8	1.6	1.79
	SUMMER	6	1.6	1.6	1.6	1.7	1.7	2.4	2.6	2.6	2.7	2.7	3.2	2.3	2.2	1.32
	AUTUMN	4	.8	.1	.9	.9	2.5	2.5	2.5	2.7	2.7	3.8	3.3	2.3	2.0	1.87
	59 59	22	.8	.8	1.5	1.7	2.0	2.4	2.6	2.7	3.5	5.3	7.3	2.7	2.3	1.83
UTAH																
BRYCE CANYON PK	WINTER	13		.1	.8	.8	.8	.9	.9	.9	1.5	1.7	2.5	1.1	.9	2.57
	SPRING	14	.8	.7	.8	.8	.9	.9	.9	1.7	1.9	2.7	2.9	1.3	1.2	1.59
	SUMMER	12			.1	1.7	2.3	3.8	4.2	4.5	5.3	7.4	8.3	3.4	1.4	7.73
	AUTUMN	8	.8	.8	.8	.8	.9	1.0	1.7	1.9	1.9	2.0	2.9	1.5	1.3	1.59
	58 59	47		.7	.8	.8	.9	1.0	1.6	1.9	2.7	4.2	8.3	1.8	1.2	3.21
VERMONT																
ORANGE COUNTY	WINTER	12	.8	.8	.9	1.0	1.8	1.8	1.9	1.9	4.2	4.5	4.8	2.2	1.8	1.86
	SPRING	13	1.0	.9	1.0	1.0	1.0	1.8	1.8	1.9	1.9	2.0	2.9	1.7	1.6	1.47
	SUMMER	11	1.6	1.5	1.6	1.6	1.7	1.9	2.0	3.2	4.5	5.3	5.8	2.8	2.5	1.63
	AUTUMN	14	.8	.8	.9	1.0	1.6	1.7	1.8	2.0	2.5	3.0	2.9	1.7	1.6	1.61
	60 61	50	.8	.9	1.0	1.4	1.7	1.8	1.9	1.9	2.7	4.0	5.8	2.1	1.8	1.67
VIRGINIA																
SHENANDOAH PARK	WINTER	23	.9	.8	1.0	1.5	1.6	1.7	2.0	2.6	3.2	3.7	3.9	2.1	1.9	1.63
	SPRING	29		.7	.8	.9	1.2	1.6	1.6	1.8	1.9	2.4	3.0	1.5	1.3	2.16
	SUMMER	24		.5	.8	.9	1.5	1.7	1.8	2.0	2.5	3.5	6.2	1.9	1.4	2.51
	AUTUMN	25	.8	.9	.9	1.2	1.7	1.8	1.9	2.0	2.2	3.0	3.8	1.8	1.7	1.56
	58 61	101		.8	.9	1.0	1.5	1.7	1.8	2.0	2.5	3.1	6.2	1.8	1.5	2.01
WASHINGTON																
CLALLAM COUNTY	WINTER	4	.7	.1	.7	.7	.7	.7	.7	.9	.9	2.0	1.9	1.1	1.0	1.60
	SPRING	6	.7	.7	.7	.7	.7	.8	.8	.8	.9	.9	.9	.8	.8	1.08
	SUMMER	6	.7	.6	.6	.6	.6	.7	.7	.7	.7	.7	1.5	.8	.8	1.37
	AUTUMN	5	.7	.7	.7	1.5	1.5	1.6	1.6	1.7	1.7	7.4	6.6	2.4	1.8	2.25
	61 61	21	.7	.6	.6	.7	.7	.8	.8	.9	1.6	1.7	6.6	1.2	1.0	1.74
WEST VIRGINIA																
WEBSTER COUNTY	WINTER	12	.7	.7	.7	1.5	1.6	1.6	1.7	1.9	2.5	2.7	4.6	1.9	1.7	1.67
	SPRING	12	.6	.6	.7	.9	1.3	1.4	1.7	2.1	2.3	2.7	5.8	1.9	1.5	1.92
	SUMMER	10		.1	1.2	1.3	1.4	1.7	2.2	2.3	2.7	3.2	4.1	1.9	1.4	3.44
	AUTUMN	11	.7	.7	1.3	1.3	1.4	1.6	1.7	2.0	2.5	2.7	2.8	1.7	1.6	1.47
	58 59	45		.7	1.2	1.3	1.5	1.6	1.8	2.2	2.4	3.0	5.8	1.9	1.6	2.06
WISCONSIN																
DOOR COUNTY	WINTER	12	.7	.7	.7	.8	.9	1.3	1.4	1.7	2.7	3.5	3.4	1.6	1.4	1.83
	SPRING	10	.7	.6	.7	.7	.9	1.3	1.4	1.7	2.0	2.3	2.4	1.4	1.2	1.62
	SUMMER	12	.9	.9	1.3	1.4	1.6	1.7	2.0	2.4	2.5	2.6	2.7	1.9	1.8	1.40
	AUTUMN	10	.7	.7	.9	1.3	1.4	1.7	1.9	2.0	2.1	2.2	2.3	1.6	1.5	1.51
	58 60	44	.7	.7	.8	1.2	1.3	1.5	1.7	2.1	2.3	2.6	3.4	1.6	1.5	1.61
WYOMING																
YELLOWSTONE PARK	WINTER	7	.5	.5	.5	.7	.8	.8	.8	.9	.9	.9	1.5	.9	.8	1.38
	SPRING	7	.8	.7	.7	.8	.8	.8	.8	.9	.9	.9	1.8	1.0	.9	1.34
	SUMMER	7	.7	.7	.7	.7	.8	.8	.8	.9	.9	.9	1.7	.9	.9	1.34
	AUTUMN	5	.8	.7	.7	.8	.8	.8	.8	.9	.9	.9	.9	.8	.8	1.07
	61 61	26	.5	.7	.7	.8	.8	.8	.8	.9	.9	.9	1.8	.9	.9	1.30

TABLE 2.15—RELATION OF BENZENE SOLUBLE ORGANIC TO SUSPENDED PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
ALABAMA													
BIRMINGHAM	57	25	1.6	4.7	5.8	7.3	8.5	9.4	10.9	6.9	6.9	1.33	.825
	58	20	4.4	5.8	7.2	8.4	11.4	13.9	18.5	9.2	8.8	1.42	.958
	59	26	3.8	4.9	6.3	7.5	9.9	13.1	22.2	8.8	7.8	1.48	.881
	60	25	4.8	5.2	6.6	7.7	11.1	15.4	18.0	9.0	8.5	1.54	.872
	57 60	96	1.6	5.0	6.3	7.6	9.6	13.2	22.2	8.4	7.8	1.46	.892
MOBILE	58	25	.6	6.8	10.2	12.4	15.9	20.6	27.4	13.0	12.1	1.55	.874
	60	25	5.5	8.0	9.2	11.4	20.6	28.7	36.7	15.4	13.6	1.74	.908
	58 60	50	.6	7.0	9.4	11.9	16.9	25.1	36.7	14.2	12.7	1.65	.873
MONTGOMERY	59	25	7.9	8.4	10.1	12.9	16.9	22.8	25.6	13.6	13.1	1.50	.680
ALASKA													
ANCHORAGE	57	26	1.7	2.4	3.8	5.0	10.4	15.4	30.0	8.0	6.1	2.18	.313
	58	26	1.7	2.1	3.5	4.6	7.7	13.3	17.1	6.7	5.1	2.10	.505
	59	25	2.3	3.5	5.5	7.7	10.9	15.4	20.6	8.3	7.6	1.78	.647
	60	26	1.7	3.0	4.3	5.1	8.3	13.1	18.4	6.9	5.8	1.83	.626
	57 60	103	1.7	2.4	4.1	5.4	9.8	14.4	30.0	7.5	6.0	2.05	.598
ARIZONA													
PHOENIX	57	26	2.0	2.4	3.5	6.1	8.1	10.1	12.0	6.2	5.5	1.81	.689
	58	23	3.5	3.9	6.1	7.7	8.7	11.4	13.0	7.6	7.2	1.45	.848
	59	25	2.9	4.5	5.5	7.7	10.2	11.4	14.3	7.8	7.4	1.52	.849
	60	25	3.2	5.8	7.0	8.0	9.2	10.8	10.9	7.9	7.9	1.26	.940
	57 60	99	2.0	3.4	5.8	7.4	8.9	10.9	14.3	7.4	6.9	1.53	.810
TUCSON	60	25	1.3	2.1	3.0	3.8	4.6	6.3	7.8	3.8	3.6	1.53	.710
ARKANSAS													
LITTLE ROCK	57	26	2.1	3.9	4.9	5.9	8.6	11.4	16.3	7.1	6.5	1.56	.571
	58	26	4.5	5.6	8.1	9.7	11.4	14.9	24.2	10.3	9.4	1.47	.759
	59	26	3.3	6.5	7.4	8.3	9.4	12.7	20.9	9.0	8.6	1.29	.777
	60	26	2.5	4.7	6.1	7.7	10.9	16.9	18.6	9.3	8.4	1.67	.666
	57 60	104	2.1	4.6	6.3	8.2	10.4	14.8	24.2	8.9	8.1	1.56	.683
CALIFORNIA													
BERKELEY	59	25	3.2	3.8	6.3	9.0	12.7	16.9	18.1	9.5	8.5	1.84	.642
BURBANK	57	25	2.2	5.2	8.3	10.9	13.1	16.2	19.1	10.4	9.9	1.56	.771
	60	26	7.2	8.8	11.0	13.1	16.2	20.6	22.6	14.0	13.4	1.41	.831
	57 60	51	2.2	6.0	9.6	12.1	14.3	19.1	22.6	12.2	11.5	1.52	.777
FRESNO	58	24	2.5	3.5	5.2	7.7	12.1	15.9	28.1	9.4	7.9	1.83	.756
	60	25	1.6	4.0	5.5	7.0	12.7	21.0	22.0	9.4	8.0	1.95	.221
	58 60	49	1.6	3.9	5.4	7.3	11.8	16.4	28.1	9.4	7.9	1.81	.603
GLENDALE	59	24	5.4	6.3	8.7	11.4	13.5	18.2	20.0	11.5	11.0	1.47	.791
LONG BEACH	58	25	4.9	5.6	6.9	9.4	12.5	16.9	19.1	9.8	9.3	1.56	.905
LOS ANGELES	57	24	1.2	4.3	9.4	11.4	13.9	18.2	18.4	11.4	10.7	1.62	.666
	58	21	8.6	9.4	11.4	14.3	16.1	20.6	22.4	14.0	13.7	1.34	.764
	59	23	1.5	5.2	9.7	11.1	12.7	16.9	19.4	10.8	10.6	1.45	.498
	60	25	5.1	7.3	9.9	12.4	15.4	19.7	21.7	12.7	12.1	1.48	.884
	57 60	93	1.2	6.6	10.0	12.1	14.4	18.6	22.4	12.2	11.8	1.45	.706
OAKLAND	58	25	8.3	9.7	11.4	13.5	16.9	22.8	24.0	14.5	14.0	1.40	.894
	60	25	4.6	6.3	9.7	10.9	12.9	16.9	23.8	11.5	10.8	1.40	.774
	58 60	50	4.6	8.3	10.3	11.9	14.3	21.3	24.0	13.0	12.4	1.41	.821
PASADENA	57	23	4.5	6.3	7.7	11.4	15.9	20.6	25.3	12.5	11.4	1.64	.423
	60	26	4.2	7.7	11.7	12.9	14.7	19.4	23.2	13.4	12.9	1.37	.761
	57 60	49	4.2	6.7	10.4	12.9	15.4	20.0	25.3	13.0	12.2	1.52	.629
RICHMOND	58	22	4.4	4.9	7.7	9.4	12.1	13.9	18.1	9.9	9.1	1.54	.793
	60	26	1.0	1.6	5.0	6.3	9.7	11.1	15.7	6.9	6.1	1.95	.447
	58 60	48	1.0	4.4	5.5	8.3	10.8	13.3	18.1	8.3	7.8	1.60	.578
SACRAMENTO	58	25	5.5	7.7	9.1	13.1	16.9	20.6	27.2	13.6	12.6	1.52	.907
	60	26	2.9	3.9	5.2	8.3	11.4	20.6	24.4	10.4	8.4	1.98	.460
	58 60	51	2.9	4.5	7.7	10.8	15.4	20.6	27.2	11.9	10.4	1.84	.768

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
SAN BERNARDINO	57	20	2.6	3.8	5.6	7.3	9.4	11.4	24.6	8.2	7.0	1.57	.779
	59	24	2.5	3.2	4.5	5.5	9.4	13.9	20.2	7.4	6.2	1.79	.590
	57 59	44	2.5	3.5	4.7	6.2	9.4	13.9	24.6	7.7	6.6	1.72	.692
SAN DIEGO	57	26	2.3	4.3	6.7	9.4	13.9	16.9	20.1	9.9	9.2	1.75	.677
	58	23	3.8	6.8	8.7	11.4	14.7	18.8	19.6	11.8	11.3	1.50	.860
	59	26	3.7	5.2	6.3	9.4	13.1	16.9	19.5	10.3	9.3	1.67	.803
	60	25	3.7	4.9	7.7	10.4	13.1	18.8	24.9	10.9	9.9	1.63	.765
	57 60	100	2.3	5.0	7.3	10.0	13.5	17.9	24.9	10.7	9.8	1.65	.764
SAN FRANCISCO	57	26	3.3	5.2	7.4	9.4	10.9	13.9	17.4	9.6	8.9	1.46	.857
	58	25	5.6	7.3	10.1	11.8	13.9	18.2	19.4	12.0	11.6	1.40	.921
	59	26	5.2	5.6	6.8	9.0	13.1	16.3	24.0	10.6	9.4	1.60	.931
	60	26	5.0	5.6	8.6	10.6	12.7	15.4	18.9	10.4	10.0	1.50	.837
	57 60	103	3.3	5.6	8.0	10.3	12.7	16.3	24.0	10.6	9.9	1.52	.886
SAN JOSE	57	25	2.2	2.9	4.6	5.8	7.3	9.0	10.1	5.8	5.6	1.60	.742
	59	26	2.9	3.9	5.2	6.6	8.1	14.9	20.0	7.7	6.7	1.62	.764
	57 59	51	2.2	3.2	4.7	6.1	7.7	10.9	20.0	6.8	6.0	1.59	.751
STOCKTON	58	26	4.7	5.2	6.7	8.8	11.4	15.9	23.0	10.0	8.9	1.58	.736
COLORADO													
DENVER	57	24	2.8	3.5	6.1	7.3	9.8	12.7	30.6	8.5	7.3	1.57	.660
	58	25	4.1	6.8	8.7	10.1	11.2	15.4	17.9	10.1	10.0	1.33	.802
	59	24	6.2	6.7	8.6	10.4	12.7	16.9	24.8	11.3	10.4	1.42	.921
	60	25	4.7	6.8	8.2	9.1	10.6	13.9	20.2	9.9	9.3	1.29	.776
	57 60	98	2.8	5.9	7.7	9.3	10.9	14.5	30.6	9.9	9.2	1.40	.769
CONNECTICUT													
BRIDGEPORT	58	21	4.7	7.0	9.8	11.8	13.5	16.9	24.7	11.9	11.4	1.39	.726
	60	24	5.2	6.3	7.1	8.3	10.6	13.3	16.3	8.9	8.7	1.35	.881
	58 60	45	4.7	6.6	7.7	10.2	12.2	15.4	24.7	10.3	9.9	1.41	.811
HARTFORD	57	26	3.8	5.6	7.0	8.2	9.4	11.1	14.0	8.2	8.1	1.31	.882
	58	25	4.2	5.8	8.1	9.0	10.6	13.3	15.3	9.1	8.9	1.37	.779
	59	26	5.2	6.3	7.3	9.0	11.0	13.9	16.7	9.7	9.1	1.39	.826
	60	26	4.2	6.3	7.7	8.8	10.2	13.1	19.7	9.6	8.9	1.32	.845
	57 60	103	3.8	5.7	7.4	8.7	10.3	13.3	19.7	9.2	8.7	1.37	.829
NEW BRITAIN	59	25	3.9	7.0	9.9	11.2	13.1	20.6	42.1	12.4	11.2	1.45	.727
NEW HAVEN	57	23	4.4	5.2	7.3	8.6	9.4	11.4	17.0	8.8	8.2	1.33	.766
	58	25	4.3	7.9	9.0	11.4	12.8	15.4	18.1	10.9	10.8	1.31	.743
	59	23	5.2	6.3	8.1	9.2	10.9	15.4	18.5	9.8	9.5	1.36	.819
	60	25	4.0	6.8	8.7	10.2	11.4	16.9	21.5	10.7	10.2	1.38	.702
	57 60	96	4.0	6.1	8.2	9.3	11.2	14.9	21.5	10.1	9.6	1.38	.742
STAMFORD	57	26	3.0	4.3	5.8	7.2	8.6	12.3	16.3	7.8	7.1	1.48	.769
	60	26	4.3	6.3	7.3	8.7	11.4	13.2	15.5	9.4	9.0	1.37	.916
	57 60	52	3.0	4.7	6.7	7.9	9.4	13.2	16.3	8.6	8.0	1.47	.798
WATERBURY	58	23	4.0	5.6	7.2	8.6	10.4	16.5	17.8	9.6	8.9	1.51	.844
DELAWARE													
WILMINGTON	57	25	2.2	3.5	5.5	6.3	7.7	9.4	10.8	6.3	6.2	1.42	.739
	58	23	4.3	4.9	6.3	7.9	8.8	10.4	11.2	7.7	7.4	1.33	.905
	60	25	3.5	4.3	6.6	7.7	8.8	12.7	17.3	7.8	7.4	1.43	.663
	57 60	73	2.2	4.3	5.9	7.3	8.4	10.3	17.3	7.3	7.0	1.38	.788
DIST OF COL													
WASHINGTON	58	24	5.9	6.3	8.8	12.3	14.3	16.5	17.0	11.6	11.3	1.44	.650
	59	22	5.4	6.8	9.0	10.9	12.9	16.2	19.6	11.1	10.7	1.41	.881
	60	22	6.6	7.0	9.4	11.9	13.9	16.9	21.8	11.9	11.3	1.43	.897
	58 60	68	5.4	7.0	8.9	11.7	13.9	16.4	21.8	11.5	11.1	1.41	.850
FLORIDA													
JACKSONVILLE	58	26	5.4	7.7	10.0	11.0	13.3	16.3	18.7	11.6	11.4	1.32	.867
	60	26	4.6	5.2	8.6	9.8	11.0	13.9	17.1	10.0	9.5	1.39	.826
	58 60	52	4.6	6.0	9.4	10.5	11.8	16.1	18.7	10.8	10.4	1.40	.835

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
MIAMI	57	25	3.6	4.9	7.3	9.4	10.7	12.7	13.6	8.7	8.5	1.44	.558
	59	24	4.3	5.2	6.6	8.3	11.4	15.9	19.8	9.4	8.7	1.55	.677
	57 59	49	3.6	5.0	6.9	8.9	10.7	13.6	19.8	9.1	8.5	1.47	.629
ORLANDO	59	24	4.7	5.6	8.1	10.1	12.1	16.9	19.5	10.4	9.9	1.49	.720
TAMPA	57	25	1.8	2.9	5.5	6.9	9.4	11.4	11.6	6.9	6.6	1.65	.283
	58	26	3.7	5.8	7.3	8.7	10.9	13.4	17.5	9.3	8.8	1.41	.663
	59	26	3.6	6.3	7.5	8.6	9.9	12.7	14.8	8.9	8.7	1.31	.701
	60	26	2.4	4.3	6.5	7.2	8.1	11.4	16.6	7.6	7.1	1.41	.702
	57 60	103	1.8	4.4	6.6	7.7	9.5	12.8	17.5	8.2	7.8	1.46	.371
GEORGIA													
ATLANTA	57	26	2.5	4.6	6.9	8.1	9.9	11.2	14.5	8.2	7.8	1.43	.249
	58	21	6.3	6.7	8.3	10.6	13.9	20.6	29.1	12.3	10.9	1.56	.858
	59	24	7.0	7.3	8.8	11.7	12.9	14.9	15.0	11.0	10.8	1.33	.918
	60	23	6.3	6.6	8.1	10.1	11.4	13.5	15.2	10.1	9.7	1.32	.867
	57 60	94	2.5	6.5	7.9	9.8	11.7	14.8	29.1	10.3	9.7	1.38	.783
AUGUSTA	58	25	1.9	5.8	8.6	11.0	13.9	16.9	21.4	11.1	10.5	1.53	.706
COLUMBUS	57	26	4.0	5.2	6.0	7.4	8.8	11.4	13.9	7.7	7.4	1.38	.803
	60	25	4.2	5.2	8.0	9.4	11.4	20.6	22.5	10.4	9.6	1.59	.648
	57 60	51	4.0	5.0	6.5	8.4	10.2	13.9	22.5	9.0	8.2	1.48	.699
MACON	58	25	4.3	6.3	10.1	12.4	13.9	18.8	23.0	12.2	11.6	1.47	.795
	60	25	4.1	5.2	6.3	9.4	11.1	15.9	19.5	9.4	8.7	1.57	.842
	58 60	50	4.1	5.2	7.7	10.5	12.9	16.5	23.0	10.8	9.8	1.58	.806
SAVANNAH	59	23	2.1	3.5	6.6	8.1	10.4	16.9	22.1	9.1	8.1	1.70	.805
HAWAII													
HONOLULU	57	25	3.3	4.3	6.3	7.3	8.7	11.4	12.8	7.4	7.2	1.42	.656
	58	23	8.6	8.8	10.8	12.7	14.4	16.9	20.9	13.1	12.4	1.28	.715
	59	25	1.8	4.3	6.1	8.8	10.8	13.3	14.2	8.5	8.0	1.57	.574
	60	26	4.2	5.2	7.0	8.6	10.1	12.1	13.2	8.6	8.3	1.39	.533
	57 60	99	1.8	4.7	7.1	9.1	10.9	13.8	20.9	9.3	8.7	1.50	.611
IDAHO													
BOISE	57	26	2.5	4.4	5.2	6.7	7.7	10.4	12.2	7.0	6.6	1.41	.767
	58	25	3.6	6.5	7.5	10.3	12.1	16.9	17.2	10.1	10.0	1.45	.728
	59	26	3.2	4.3	7.7	10.8	12.9	15.9	17.2	10.0	9.5	1.66	.573
	60	24	3.8	4.3	6.6	8.3	10.9	16.9	22.9	9.6	8.5	1.67	.434
	57 60	101	2.5	4.5	6.6	8.6	11.1	15.4	22.9	9.2	8.5	1.62	.629
ILLINOIS													
CHICAGO	58	21	3.7	6.3	7.4	8.8	10.4	13.1	18.1	9.3	8.9	1.33	.649
	59	20	1.9	3.5	6.1	7.4	8.4	10.4	12.3	7.2	6.9	1.44	.240
	60	21	4.4	4.9	6.8	8.1	9.4	11.0	12.0	8.0	7.9	1.35	.653
	58 60	62	1.9	4.9	6.8	8.0	9.3	11.4	18.1	8.2	7.9	1.37	.485
EAST ST LOUIS	58	22	4.4	5.6	8.1	9.7	10.9	13.3	15.0	9.7	9.1	1.39	.901
PEORIA	58	25	3.8	4.5	5.4	6.3	12.7	16.9	22.6	9.0	7.7	1.75	.620
ROCKFORD	59	26	.9	3.5	6.0	8.6	10.2	12.7	25.1	8.6	7.7	1.64	.306
INDIANA													
EAST CHICAGO	57	20	1.0	2.1	3.8	4.9	6.3	7.7	54.5	7.3	4.5	1.70	.113
	58	20	2.5	3.2	3.8	4.3	5.6	7.7	8.7	4.9	4.7	1.39	.630
	59	23	1.5	2.0	3.0	3.8	4.3	7.7	10.1	4.2	3.7	1.60	.644
	60	24	1.4	2.9	4.0	4.8	5.7	7.7	9.2	5.0	4.7	1.42	.682
	57 60	87	1.0	2.3	3.6	4.4	5.6	7.6	54.5	5.3	4.4	1.55	.563
EVANSVILLE	57	25	1.8	3.3	5.0	5.9	7.0	14.9	15.3	6.6	6.1	1.61	.474
	60	26	2.9	3.9	5.8	7.3	8.7	12.7	18.2	7.9	7.1	1.51	.686
	57 60	51	1.8	3.4	5.3	6.2	8.1	13.9	18.2	7.3	6.5	1.63	.626
FORT WAYNE	57	26	2.5	3.9	5.0	6.6	7.7	10.9	11.5	6.9	6.4	1.51	.711
	60	26	5.8	6.1	7.4	8.6	9.7	11.4	15.7	8.9	8.5	1.29	.742
	57 60	52	2.5	4.5	6.3	7.6	9.2	11.4	15.7	7.9	7.5	1.44	.651

TABLE 2.15—RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
GARY	58	26	1.2	2.4	3.8	5.8	8.1	10.8	12.1	6.2	5.4	1.84	.332
	60	24	1.5	2.9	4.3	6.3	7.5	10.4	10.7	6.2	5.8	1.65	.317
	58 60	50	1.2	2.6	3.9	6.1	7.7	10.6	12.1	6.2	5.6	1.74	.388
HAMMOND	59	25	1.5	3.5	5.6	7.4	9.9	16.9	18.2	8.1	7.3	1.78	.499
INDIANAPOLIS	57	25	2.8	4.7	6.3	7.3	8.7	11.4	22.4	7.8	7.3	1.38	.635
	58	24	6.0	6.7	8.3	9.6	10.8	13.1	22.0	10.1	9.4	1.27	.813
	59	21	4.8	5.2	7.4	10.1	12.3	13.9	16.0	9.8	9.3	1.48	.627
	60	25	4.7	6.0	7.1	8.1	9.2	11.4	13.0	8.4	8.1	1.27	.820
	57 60	95	2.8	5.6	7.2	8.5	10.1	12.9	22.4	9.0	8.5	1.37	.740
SOUTH BEND	59	23	3.1	4.3	5.7	7.7	9.4	13.1	14.2	7.9	7.4	1.54	.685
IOWA													
DAVENPORT	58	20	3.4	4.3	6.6	7.5	8.4	9.4	10.6	7.2	7.0	1.34	.625
DES MOINES	57	26	.3	2.4	3.2	3.9	4.6	7.7	9.3	4.3	3.9	1.52	.445
	58	26	2.6	3.8	5.2	6.0	7.2	12.3	16.3	6.7	6.2	1.52	.584
	59	25	1.5	2.6	4.3	6.1	8.4	11.4	12.8	6.4	5.7	1.78	.506
	60	25	1.7	3.5	5.5	6.2	7.1	9.4	15.2	6.4	6.0	1.39	.796
	57 60	102	.3	2.7	4.1	5.5	6.9	9.4	16.3	5.9	5.3	1.61	.559
KANSAS													
KANSAS CITY	60	26	3.8	4.6	6.3	7.3	8.7	10.9	12.1	7.5	7.3	1.40	.791
TOPEKA	59	24	1.5	1.8	4.6	5.9	7.2	11.4	16.1	6.2	5.1	1.94	.339
WICHITA	57	26	1.2	2.4	3.1	3.5	5.2	7.2	7.8	4.2	3.9	1.56	.328
	58	22	1.1	4.3	5.4	6.3	8.1	10.8	18.0	7.2	6.6	1.44	.014
	59	21	2.9	3.7	4.7	6.1	7.4	11.4	12.7	6.5	6.1	1.53	.696
	60	22	4.4	5.2	6.1	7.0	8.1	12.3	13.7	7.6	7.3	1.36	.766
	57 60	91	1.1	3.0	4.6	6.0	7.3	10.2	18.0	6.3	5.8	1.57	.475
LOUISIANA													
BATON ROUGE	57	24	4.8	5.3	6.0	6.7	7.7	9.4	11.8	7.3	6.9	1.24	.931
	60	26	5.3	6.6	8.0	9.2	10.6	12.7	19.3	9.5	9.1	1.29	.916
	57 60	50	4.8	5.6	6.7	7.9	9.3	11.9	19.3	8.4	8.0	1.34	.881
NEW ORLEANS	57	26	3.2	4.7	6.8	9.4	11.1	13.9	24.9	9.6	8.6	1.56	.824
	58	25	2.9	8.1	10.1	11.9	14.7	19.4	33.7	12.9	12.1	1.40	.641
	59	26	5.4	8.3	10.3	11.8	13.9	17.9	20.3	12.3	12.1	1.35	.742
	60	26	5.0	7.0	8.7	10.3	11.9	14.7	15.9	10.5	10.2	1.34	.596
	57 60	103	2.9	6.1	9.1	10.8	12.9	16.7	33.7	11.3	10.6	1.44	.685
SHREVEPORT	59	25	1.6	2.9	4.6	5.8	8.4	12.3	13.3	6.5	5.9	1.69	.814
MAINE													
PORTLAND	58	23	4.7	5.2	7.7	9.7	10.7	13.1	14.4	9.4	9.0	1.38	.848
	59	21	4.5	4.9	6.3	7.5	8.6	10.1	10.5	7.5	7.2	1.32	.904
	60	24	5.4	6.0	7.4	8.6	9.7	10.9	11.4	8.4	8.4	1.25	.880
	58 60	68	4.5	5.5	7.1	8.4	9.7	11.1	14.4	8.5	8.2	1.31	.887
MARYLAND													
BALTIMORE	57	26	2.7	4.6	5.9	7.2	8.3	9.4	15.6	7.4	6.9	1.34	.763
	58	25	5.0	6.6	8.1	10.1	12.4	13.9	15.0	10.0	9.8	1.37	.740
	59	25	4.1	6.6	8.0	9.4	11.4	13.5	14.0	9.6	9.4	1.33	.736
	60	25	4.8	5.7	7.3	8.7	10.1	12.3	13.0	8.5	8.4	1.35	.915
	57 60	101	2.7	5.3	7.1	8.6	10.3	13.0	15.6	8.8	8.5	1.41	.783
MASSACHUSETTS													
BOSTON	57	26	3.1	4.7	6.6	7.3	8.1	9.2	10.0	7.1	7.1	1.27	.806
	58	24	6.3	6.3	7.7	8.9	10.2	11.4	12.3	8.9	8.8	1.25	.930
	59	26	3.1	5.8	8.4	9.8	11.0	14.7	16.7	10.0	9.5	1.40	.547
	60	26	3.8	5.2	7.9	9.0	10.3	12.7	15.9	9.1	8.7	1.37	.711
	57 60	102	3.1	5.4	7.4	8.6	9.9	12.3	16.7	8.8	8.4	1.35	.726
BROCKTON	58	24	5.8	6.3	9.7	10.9	18.8	32.7	34.2	15.1	12.9	1.80	.884
	59	22	2.0	2.9	8.8	13.1	16.9	25.1	58.0	14.7	11.1	2.18	.671
	60	25	.2	2.5	4.0	5.2	9.4	13.1	23.1	6.6	5.6	1.98	.499
	58 60	71	.2	2.9	6.3	10.1	13.6	23.3	58.0	12.0	9.2	2.18	.653

TABLE 2.15—RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
CAMBRIDGE	59	25	4.8	6.3	8.1	9.8	11.0	16.9	28.7	10.5	9.6	1.40	.738
	60	26	1.5	1.9	4.3	5.2	7.7	10.4	19.8	6.3	5.1	1.95	.528
	59 60	51	1.5	2.4	5.5	7.9	10.0	13.9	28.7	8.4	7.0	1.85	.546
FALL RIVER	58	23	5.3	6.0	8.1	9.9	12.3	15.7	16.1	10.4	9.9	1.45	.849
	60	23	4.3	5.2	7.2	8.4	9.4	13.9	21.6	9.3	8.4	1.39	.794
	58 60	46	4.3	5.9	7.5	8.8	10.9	14.9	21.6	9.8	9.1	1.43	.817
LAWRENCE	57	26	3.0	3.5	5.0	5.8	7.0	10.4	12.5	6.4	6.0	1.48	.770
	60	25	5.0	5.8	6.9	7.7	10.1	12.9	13.5	8.5	8.3	1.37	.782
	57 60	51	3.0	4.4	5.7	7.0	8.7	12.1	13.5	7.4	7.1	1.48	.728
LOWELL	59	22	2.3	5.2	8.3	9.4	10.4	12.7	17.3	9.3	8.9	1.35	.811
LYNN	57	21	3.8	6.3	7.3	8.4	9.4	13.9	14.9	8.8	8.6	1.34	.893
	60	26	5.6	7.0	8.3	9.2	11.4	15.4	20.3	10.4	9.8	1.35	.683
	57 60	47	3.8	6.6	7.8	8.9	10.8	14.7	20.3	9.7	9.3	1.36	.818
NEW BEDFORD	59	25	3.5	7.0	8.4	9.8	11.9	18.8	26.1	10.7	10.2	1.41	.634
	60	26	.9	1.9	4.7	7.4	9.9	13.9	19.3	7.8	6.5	2.06	.442
	59 60	51	.9	3.3	7.0	8.9	11.0	15.4	26.1	9.2	8.2	1.72	.504
QUINCY	58	25	5.0	5.8	9.4	11.1	13.9	19.4	27.0	11.7	10.8	1.60	.784
	59	23	1.9	2.4	6.3	11.4	12.9	15.9	57.5	11.4	8.6	1.96	.467
	60	23	3.7	7.0	9.4	12.3	13.9	18.8	20.2	12.2	11.7	1.45	.693
	58 60	71	1.9	5.2	8.5	11.4	13.5	18.0	57.5	11.8	10.5	1.60	.634
SOMERVILLE	57	25	3.7	4.3	5.9	7.0	8.2	9.4	14.3	7.0	6.7	1.35	.723
	60	25	3.7	5.8	7.3	9.7	11.4	13.5	18.9	9.3	9.0	1.42	.716
	57 60	50	3.7	4.6	6.5	7.6	9.4	12.7	18.9	8.2	7.7	1.46	.676
SPRINGFIELD	58	26	5.3	6.3	8.3	9.2	11.4	13.5	16.0	10.0	9.5	1.33	.850
	59	23	3.2	4.3	9.0	11.0	13.3	18.2	20.5	11.1	10.4	1.61	.794
	60	21	6.0	6.3	7.3	8.7	10.8	15.9	18.1	9.8	9.2	1.45	.877
	58 60	70	3.2	6.0	8.1	9.4	11.9	15.8	20.5	10.3	9.7	1.44	.836
WORCESTER	57	26	2.7	4.0	5.4	6.2	7.7	9.4	18.1	7.0	6.3	1.40	.687
	59	25	4.9	6.0	7.0	8.3	10.6	13.3	15.4	8.8	8.6	1.38	.825
	60	26	.5	1.9	4.7	6.3	10.1	12.3	16.9	7.6	6.3	1.96	.262
	57 60	77	.5	4.1	5.6	7.3	9.4	12.4	18.1	7.8	7.2	1.55	.552
MICHIGAN													
DEARBORN	59	26	4.2	6.3	8.0	9.4	12.1	13.9	20.6	10.1	9.7	1.39	.633
DETROIT	57	23	2.2	3.5	6.5	7.4	8.2	9.4	12.6	7.1	6.9	1.37	.641
	58	25	4.0	4.5	6.7	8.1	9.2	12.3	12.5	7.9	7.6	1.46	.765
	59	26	2.7	3.8	5.8	7.2	8.6	10.2	11.2	7.0	6.7	1.49	.662
	60	26	2.7	4.6	5.8	6.8	8.6	12.1	13.4	7.5	7.1	1.46	.612
	57 60	100	2.2	4.1	6.0	7.3	8.7	11.1	13.4	7.4	7.1	1.44	.668
FLINT	57	26	2.2	4.3	5.2	6.5	7.4	9.4	10.0	6.4	6.3	1.36	.630
	59	26	1.1	4.3	6.8	8.1	9.7	11.1	14.3	8.0	7.8	1.42	.270
	57 59	52	1.1	3.9	6.0	7.1	8.6	10.8	14.3	7.2	7.0	1.46	.390
JACKSON	58	24	3.1	5.2	7.7	9.4	11.4	14.9	16.1	9.8	9.2	1.47	.709
KALAMAZOO	57	24	.7	1.9	4.1	5.8	7.1	9.4	11.5	5.7	5.2	1.71	.366
	60	25	2.9	3.3	4.8	6.1	7.7	9.0	9.6	6.1	6.0	1.52	.695
	57 60	49	.7	2.9	4.5	6.0	7.2	9.4	11.5	5.9	5.6	1.56	.552
LANSING	57	24	2.2	3.2	4.3	6.0	7.2	9.0	9.8	6.0	5.6	1.49	.508
	60	25	3.9	4.9	7.3	9.7	11.1	15.4	17.3	9.3	8.9	1.54	.630
	57 60	49	2.2	3.8	5.6	7.2	9.2	12.3	17.3	7.7	7.1	1.56	.479
SAGINAW	58	26	5.4	6.3	8.0	9.2	10.8	13.3	16.5	9.4	9.2	1.34	.657
	60	26	2.8	4.5	5.7	6.9	9.4	11.1	14.8	7.6	7.1	1.46	.573
	58 60	52	2.8	5.0	6.6	8.3	10.1	12.9	16.5	8.5	8.1	1.45	.576
MINNESOTA													
DULUTH	57	25	1.6	3.9	5.2	6.1	7.7	11.4	16.0	6.7	6.3	1.48	.661
	59	26	3.4	4.9	6.6	7.7	8.9	10.9	29.2	8.5	7.5	1.36	.793
	57 59	51	1.6	4.3	5.6	7.0	8.5	11.0	29.2	7.6	6.9	1.44	.750

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter										Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
MINNEAPOLIS	57	24	.8	.9	3.8	5.8	7.2	10.1	11.4	5.6	4.7	2.16	.436
	58	26	2.0	3.2	6.8	8.3	9.2	12.7	16.6	8.0	7.3	1.66	.574
	59	26	1.5	2.9	5.2	7.1	8.3	10.1	11.6	6.6	6.2	1.65	.441
	60	26	4.5	4.7	5.6	7.4	8.8	12.3	18.0	7.9	7.3	1.48	.741
	57 60	102	.8	3.0	5.2	7.1	8.6	11.2	18.0	7.1	6.5	1.64	.489
ST PAUL	58	24	2.2	3.5	6.8	8.3	10.6	22.8	25.1	9.9	8.4	1.84	.504
	60	25	3.7	6.3	8.1	9.0	10.9	13.4	17.6	9.3	9.2	1.32	.581
	58 60	49	2.2	4.7	7.4	8.8	10.5	13.9	25.1	9.6	8.7	1.46	.525
MISSISSIPPI													
JACKSON	57	24	1.4	1.8	4.0	5.4	7.7	16.9	19.3	6.9	5.5	2.11	.614
	58	24	5.1	5.4	6.3	8.3	11.4	15.9	17.9	9.2	8.5	1.49	.838
	59	26	1.9	4.3	5.3	8.4	9.7	11.4	19.3	8.5	7.7	1.47	.759
	60	24	4.3	5.5	5.7	7.7	9.1	11.0	19.2	8.2	7.8	1.30	.854
	57 60	98	1.4	4.0	5.9	7.6	9.5	13.2	19.3	8.2	7.5	1.55	.735
MISSOURI													
KANSAS CITY	57	26	1.7	2.6	3.5	5.4	6.7	8.6	13.0	5.6	4.9	1.64	.540
	58	24	4.5	5.2	6.3	7.7	9.7	11.4	13.1	8.1	7.8	1.37	.819
	59	22	3.5	4.0	5.1	8.1	9.7	11.4	16.1	8.1	7.5	1.52	.447
	60	26	4.7	5.0	5.7	6.3	7.7	10.1	14.4	7.2	6.7	1.32	.691
	57 60	98	1.7	3.8	5.5	6.8	8.6	10.9	16.1	7.2	6.7	1.49	.617
ST LOUIS	57	25	2.0	3.5	5.0	6.0	7.7	10.1	10.7	6.2	6.0	1.49	.722
	58	23	3.4	4.7	7.7	8.8	10.1	13.9	17.9	9.0	8.5	1.45	.544
	59	24	2.2	3.8	5.6	7.7	9.4	12.3	13.3	7.7	7.2	1.57	.867
	60	26	4.0	4.7	6.3	8.0	9.2	11.0	15.0	8.0	7.6	1.40	.701
	57 60	98	2.0	4.1	5.7	7.7	9.1	11.4	17.9	7.7	7.2	1.49	.743
MONTANA													
HELENA	57	25	.0	.7	1.3	2.6	4.9	9.4	11.4	3.7	2.5	2.94	.103
	58	26	1.3	2.1	2.9	4.6	6.3	13.9	22.2	6.1	4.5	2.06	.461
	59	25	1.4	1.9	4.0	5.2	7.4	10.4	12.5	5.7	5.1	1.84	.549
	60	26	1.5	1.8	3.3	4.6	6.3	10.8	18.3	5.9	4.5	2.04	.415
	57 60	102	.0	1.3	2.9	4.4	6.5	10.6	22.2	5.3	4.1	2.22	.161
NEBRASKA													
LINCOLN	57	26	2.3	3.1	3.6	4.0	4.5	6.0	7.8	4.3	4.1	1.27	.760
	60	25	1.2	3.0	3.7	4.9	6.7	10.4	13.4	5.5	5.0	1.62	.482
	57 60	51	1.2	3.0	3.6	4.2	5.4	7.7	13.4	4.9	4.5	1.44	.632
OMAHA	57	26	1.8	3.2	4.3	5.2	6.1	8.6	10.4	5.4	5.1	1.46	.513
	58	22	3.7	5.2	6.6	7.7	10.2	11.4	12.6	8.3	8.0	1.39	.628
	59	23	1.3	1.9	5.2	6.8	7.7	9.1	15.0	6.4	5.7	1.71	.595
	60	26	2.7	4.3	5.5	7.7	9.9	14.9	18.3	8.4	7.5	1.65	.347
	57 60	97	1.3	3.3	5.2	6.6	8.5	11.1	18.3	7.1	6.5	1.58	.451
NEVADA													
LAS VEGAS	57	24	1.2	1.8	4.0	5.0	6.1	7.7	9.0	5.0	4.6	1.62	.410
	58	22	1.9	2.4	5.2	5.6	7.5	9.1	9.5	6.2	5.9	1.58	.555
	60	21	2.4	3.5	4.0	5.5	7.0	9.0	10.1	5.6	5.4	1.50	.723
	57 60	67	1.2	2.6	4.3	5.6	6.9	8.6	10.1	5.6	5.3	1.55	.546
NEW HAMPSHIRE													
MANCHESTER	58	20	5.8	6.3	9.1	10.6	13.1	16.9	19.2	11.2	10.7	1.43	.802
	59	20	6.2	6.7	8.1	9.7	11.1	13.9	16.3	9.9	9.6	1.33	.878
	60	21	5.1	7.0	9.0	10.4	11.4	16.9	17.5	10.7	10.4	1.35	.878
	58 60	61	5.1	6.8	8.7	10.3	11.7	15.9	19.2	10.6	10.3	1.36	.852
NEW JERSEY													
ATLANTIC CITY	58	25	1.3	1.9	4.3	5.8	7.4	11.4	27.2	6.5	5.2	1.90	.173
CAMDEN	57	26	3.1	3.7	4.6	5.5	6.2	7.7	8.9	5.5	5.4	1.33	.800
	60	25	4.1	4.4	5.2	6.3	8.7	9.5	10.2	6.8	6.7	1.45	.385
	57 60	51	3.1	3.9	4.9	5.8	7.3	9.4	10.2	6.2	5.9	1.41	.682
EAST ORANGE	57	20	3.6	4.3	5.2	6.0	7.7	9.4	31.6	7.6	6.2	1.37	.866
	60	20	3.9	4.3	6.1	8.3	10.8	16.9	21.4	9.5	8.3	1.67	.919
	57 60	40	3.6	4.3	5.5	6.7	8.9	13.9	31.6	8.5	7.1	1.56	.872

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frenuency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
ELIZABETH	58	23	5.8	5.8	7.2	8.7	10.1	12.7	25.0	9.2	8.5	1.34	.797
	60	24	4.7	5.2	6.7	8.2	9.4	11.4	14.2	8.3	7.9	1.35	.936
	58 60	47	4.7	5.6	6.9	8.4	9.8	11.4	25.0	8.8	8.2	1.33	.885
JERSEY CITY	57	25	4.4	5.0	5.9	6.9	8.4	10.4	11.3	7.1	7.0	1.34	.719
	59	26	4.7	5.0	5.9	6.9	8.6	10.6	16.4	7.5	7.1	1.37	.636
	57 59	51	4.4	4.9	5.8	6.9	8.5	10.5	16.4	7.3	7.0	1.36	.678
NEWARK	58	22	6.5	6.8	8.1	9.4	10.4	12.3	13.1	9.3	9.2	1.26	.939
	59	24	5.4	6.3	8.0	9.4	10.7	11.1	20.2	9.7	9.2	1.30	.892
	60	25	5.7	7.3	8.3	9.1	10.6	13.3	20.5	9.6	9.4	1.25	.850
	58 60	71	5.4	6.8	8.1	9.2	10.6	12.7	20.5	9.6	9.2	1.27	.896
NEW MEXICO													
ALBUQUERQUE	57	22	2.7	4.3	6.8	8.8	10.4	13.1	17.2	8.8	8.2	1.52	.642
	58	24	4.9	5.5	7.7	9.8	11.8	13.9	15.1	9.6	9.3	1.45	.729
	59	24	1.1	2.9	5.2	6.3	8.4	12.7	19.7	7.2	6.3	1.67	.525
	60	26	1.1	3.1	4.3	5.6	8.3	10.4	10.9	6.2	5.8	1.68	.346
	57 60	96	1.1	3.7	5.7	7.7	9.8	12.6	19.7	7.9	7.3	1.61	.480
NEW YORK													
ALBANY	60	25	3.0	3.5	4.7	6.1	7.3	9.4	12.1	6.2	5.8	1.46	.828
BINGHAMTON	57	26	4.7	5.2	5.9	6.7	7.7	9.1	12.7	7.2	6.8	1.26	.834
	59	25	3.2	4.3	5.6	6.3	7.7	11.4	19.6	7.2	6.6	1.40	.589
	60	24	3.9	4.3	6.0	7.0	8.3	12.7	15.8	7.7	7.1	1.46	.721
	57 60	75	3.2	4.6	5.8	6.7	7.8	10.9	19.6	7.4	6.8	1.36	.722
BUFFALO	60	26	1.9	3.5	4.1	5.3	6.1	8.3	13.2	5.4	5.2	1.40	.739
ELMIRA	59	25	2.1	3.2	5.6	6.6	7.7	11.4	18.2	7.2	6.3	1.59	.521
	60	26	2.4	3.9	5.5	6.2	7.7	10.4	11.6	6.8	6.4	1.45	.707
	59 60	51	2.1	3.3	5.4	6.3	7.7	10.9	18.2	7.0	6.3	1.55	.699
GLEN COVE	59	22	2.8	3.9	5.5	6.2	7.7	10.8	14.1	7.0	6.5	1.46	.873
	60	21	2.8	3.5	4.8	6.3	7.7	11.4	13.1	6.8	6.2	1.54	.873
	59 60	43	2.8	3.8	5.2	6.2	7.7	10.9	14.1	6.9	6.3	1.48	.880
MASSENA	59	20	3.5	3.9	6.0	7.0	8.1	9.4	30.4	8.0	6.7	1.37	.608
	60	25	2.8	4.3	6.1	7.4	8.8	11.4	15.4	7.4	7.2	1.43	.711
	59 60	45	2.8	4.1	6.0	7.2	8.5	11.4	30.4	7.7	7.0	1.44	.696
NEW ROCHELLE	59	24	4.3	4.9	6.8	8.1	10.1	12.7	14.7	8.6	8.1	1.41	.842
	60	26	4.7	6.6	7.9	9.0	10.4	13.9	17.1	9.7	9.2	1.32	.945
	59 60	50	4.3	5.6	7.3	8.7	10.2	13.3	17.1	9.2	8.6	1.37	.869
NEW YORK CITY	57	25	4.1	4.3	4.9	5.8	6.7	7.7	8.5	5.9	5.7	1.27	.837
	58	25	6.0	7.0	8.4	9.2	10.6	12.7	13.3	9.2	9.3	1.24	.919
	59	26	4.2	5.8	7.0	8.1	9.7	10.9	12.4	8.1	8.1	1.29	.896
	60	25	5.0	6.7	7.3	8.3	9.4	11.1	12.8	8.5	8.3	1.24	.838
	57 60	101	4.1	4.9	6.6	7.8	9.2	11.0	13.3	7.9	7.7	1.36	.825
NIAGARA FALLS	59	23	1.8	2.5	3.5	4.1	4.8	6.3	15.1	4.6	4.1	1.39	.660
ROCHESTER	58	25	3.2	5.5	6.9	8.1	9.2	11.0	13.4	7.9	7.9	1.31	.587
	59	23	3.3	3.8	5.4	6.3	7.7	9.4	10.6	6.6	6.3	1.40	.817
	60	26	2.8	3.3	4.9	6.3	7.2	9.4	24.7	6.7	5.8	1.48	.533
	58 60	74	2.8	3.6	5.6	6.8	8.2	10.3	24.7	7.1	6.6	1.46	.637
SCHENECTADY	57	22	1.7	3.2	4.5	5.5	7.0	9.1	16.5	6.2	5.5	1.51	.441
	59	24	1.8	4.3	5.7	6.7	7.7	12.7	36.9	8.1	6.8	1.43	.773
	60	23	2.8	2.9	4.7	5.6	7.0	10.1	10.5	6.0	5.6	1.53	.764
	57 60	69	1.7	3.6	4.9	6.1	7.4	9.4	36.9	6.8	6.0	1.44	.702
SYRACUSE	57	26	3.9	4.5	5.5	6.8	8.0	9.2	17.0	7.0	6.6	1.35	.816
	59	26	3.2	5.8	6.9	7.6	8.6	10.4	19.2	8.0	7.7	1.24	.763
	60	25	3.7	4.7	5.7	6.6	8.0	9.4	10.9	6.8	6.7	1.31	.969
	57 60	77	3.2	4.6	6.0	7.1	8.2	9.4	19.2	7.3	6.9	1.32	.807
TROY	59	24	.6	3.5	4.3	6.3	7.1	11.4	11.7	6.1	5.9	1.53	.433
	60	21	3.7	4.0	5.0	6.0	6.8	7.7	11.8	6.0	5.8	1.29	.738
	59 60	45	.6	3.8	4.9	6.1	7.0	9.4	11.8	6.1	5.9	1.40	.538

TABLE 2.15—RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE—Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
UTICA	57	24	2.4	3.1	4.6	5.0	6.	8.7	8.8	5.6	5.3	1.43	.744
	59	26	2.7	4.3	5.7	6.3	7.2	8.6	10.6	6.4	6.3	1.27	.851
	60	25	2.3	3.5	4.6	6.1	7.4	10.4	12.0	6.3	5.9	1.53	.762
	57 60	75	2.3	3.4	4.9	5.9	7.2	9.0	12.0	6.1	5.8	1.43	.796
NORTH CAROLINA													
ASHEVILLE	58	25	4.7	6.3	9.7	11.4	13.2	16.2	29.7	11.6	11.0	1.39	.790
	60	25	2.9	5.5	7.3	8.5	9.4	11.4	13.0	8.4	8.2	1.33	.798
	58 60	50	2.9	5.6	8.1	9.6	11.4	13.9	29.7	10.0	9.3	1.41	.746
CHARLOTTE	57	25	3.7	4.5	7.7	9.4	10.9	15.4	16.8	9.2	8.6	1.57	.889
	58	25	7.5	8.0	9.4	10.9	13.3	20.6	21.2	11.8	11.4	1.41	.936
	59	26	4.5	7.0	9.0	11.7	13.3	16.9	20.2	11.6	11.0	1.42	.940
	60	25	4.1	6.3	7.7	9.4	11.9	14.7	16.9	10.0	9.6	1.42	.897
	57 60	101	3.7	6.0	8.4	10.2	12.4	16.1	21.2	10.6	10.1	1.45	.895
GREENSBORO	58	22	3.4	5.8	8.1	9.4	12.1	16.9	19.2	10.3	9.7	1.50	.759
RALEIGH	59	25	4.9	6.8	9.0	11.0	13.1	15.7	15.9	10.7	10.6	1.39	.836
WINSTON SALEM	57	26	1.3	4.3	5.8	8.1	9.8	12.3	15.6	8.1	7.5	1.53	.738
	60	25	5.2	6.3	8.1	10.8	14.5	18.2	20.0	11.2	10.7	1.55	.758
	57 60	51	1.3	5.2	6.6	9.0	11.4	15.9	20.0	9.6	8.9	1.57	.797
NORTH DAKOTA													
BISMARCK	57	24	.7	1.6	2.5	3.3	4.3	7.7	17.6	4.4	3.3	1.74	.170
	58	26	2.0	3.3	4.0	4.8	7.7	10.4	15.8	6.1	5.4	1.61	.647
	59	25	2.0	2.6	3.7	5.2	6.3	13.1	16.8	5.9	5.1	1.78	.459
	60	26	1.8	2.0	2.9	4.0	5.2	7.0	15.0	4.5	3.8	1.68	.593
	57 60	101	.7	2.1	3.2	4.2	5.7	10.4	17.6	5.2	4.4	1.79	.424
OHIO													
AKRON	58	26	2.9	4.7	6.6	8.6	11.0	16.3	20.6	9.8	9.7	1.67	.682
	60	24	2.4	3.5	4.9	6.5	7.5	9.1	12.0	6.4	6.0	1.44	.735
	58 60	50	2.4	4.0	5.7	7.1	8.9	15.1	20.6	8.1	7.3	1.61	.651
CANTON	57	26	3.7	4.9	6.3	7.3	9.0	12.3	15.4	8.0	7.6	1.43	.701
	59	26	3.0	4.7	6.8	8.1	9.7	10.9	13.7	8.1	7.8	1.38	.624
	57 59	52	3.0	4.6	6.5	7.6	9.4	11.4	15.4	8.1	7.6	1.41	.666
CINCINNATI	57	25	.8	2.6	4.9	6.1	8.1	10.8	11.6	6.2	5.8	1.70	.381
	58	22	5.7	6.3	7.5	8.7	10.2	13.1	15.6	9.0	8.8	1.33	.899
	59	26	3.1	3.5	6.1	7.9	9.0	12.3	14.2	7.9	7.3	1.56	.790
	60	24	4.3	4.6	5.5	6.2	7.7	8.9	9.3	6.6	6.4	1.29	.806
	57 60	97	.8	4.4	5.8	7.3	8.7	11.2	15.6	7.4	7.1	1.43	.674
CLEVELAND	57	26	3.0	4.0	5.0	6.0	7.7	9.4	10.2	6.4	6.1	1.42	.739
	58	25	4.2	5.2	7.4	8.6	9.9	13.1	17.8	8.7	8.4	1.39	.548
	59	25	.7	3.5	6.8	8.4	9.7	10.9	11.1	7.6	7.5	1.51	.425
	60	26	2.1	4.3	5.8	6.6	7.7	10.8	12.7	7.1	6.8	1.40	.770
	57 60	102	.7	4.1	5.8	7.4	8.9	11.0	17.8	7.4	7.1	1.46	.581
COLUMBUS	57	26	1.8	3.5	4.5	5.8	7.4	8.8	9.9	5.9	5.7	1.48	.625
	58	26	4.6	5.7	6.6	7.4	8.7	10.6	14.2	7.9	7.6	1.28	.838
	59	24	4.4	4.7	6.3	7.0	7.6	10.4	13.5	7.2	6.9	1.30	.845
	60	25	4.4	4.8	6.1	7.4	9.1	11.0	11.9	7.5	7.3	1.40	.615
	57 60	101	1.8	4.5	5.9	7.0	8.2	10.3	14.2	7.1	6.9	1.37	.706
DAYTON	58	23	5.1	6.3	7.7	9.4	10.4	12.7	14.2	9.2	9.0	1.30	.698
	59	25	1.7	4.3	5.2	6.9	8.1	13.9	16.3	7.0	6.8	1.52	.665
	60	26	4.3	4.8	5.9	7.0	8.4	10.8	14.8	7.5	7.0	1.37	.754
	58 60	74	1.7	4.6	6.3	7.5	9.1	12.1	16.3	7.9	7.5	1.43	.655
HAMILTON	59	26	1.8	5.4	6.3	9.4	11.1	15.1	15.9	9.5	8.9	1.55	.650
LORAIN	57	26	2.7	3.2	4.7	6.3	7.7	11.4	15.5	6.7	6.1	1.62	.694
	60	26	1.7	2.5	3.2	3.9	5.0	6.8	9.6	4.3	4.0	1.48	.775
	57 60	52	1.7	2.7	3.6	4.9	6.5	9.4	15.5	5.5	4.9	1.64	.714
SPRINGFIELD	58	24	3.7	4.5	6.0	8.2	9.4	12.7	15.6	8.3	7.7	1.48	.718
	60	26	2.5	4.0	5.2	6.3	7.7	10.4	13.6	6.9	6.4	1.45	.694
	58 60	50	2.5	4.3	5.5	7.1	8.8	11.4	15.6	7.5	7.0	1.48	.716

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
TOLEDO	57	26	3.4	4.3	5.1	6.0	7.2	9.4	13.0	6.4	6.1	1.37	.820
	59	24	3.4	5.2	6.9	8.4	9.9	11.2	11.6	8.2	8.1	1.34	.744
	57 59	50	3.4	4.4	5.7	7.0	8.8	11.0	13.0	7.3	7.0	1.43	.760
YOUNGSTOWN	57	26	2.8	3.5	5.8	6.9	7.7	12.4	13.8	7.4	6.8	1.61	.840
	58	26	3.4	4.7	7.3	9.7	11.1	13.1	14.0	9.1	8.6	1.52	.646
	59	26	4.4	5.2	7.9	8.6	9.3	12.7	16.5	8.7	8.4	1.36	.779
	60	26	3.6	4.1	6.1	7.7	8.9	12.7	16.5	8.1	7.4	1.50	.763
	57 60	104	2.8	4.3	6.4	8.1	9.8	13.1	16.5	8.3	7.9	1.52	.760
OKLAHOMA													
OKLAHOMA CITY	58	25	5.5	6.1	8.0	9.4	10.9	13.3	20.5	9.8	9.1	1.34	.325
	60	23	4.1	4.6	7.0	8.4	9.9	15.4	20.9	9.0	8.4	1.49	.387
	58 60	48	4.1	5.5	7.3	8.8	10.5	13.4	20.9	9.4	8.7	1.39	.361
TULSA	59	21	1.8	1.9	3.2	3.8	5.2	9.4	12.3	4.7	4.1	1.71	.512
OREGON													
PORTLAND	57	26	2.5	3.5	6.1	8.0	9.4	12.3	19.7	8.3	7.4	1.58	.840
	58	25	6.6	7.4	10.1	12.5	14.5	18.2	19.4	12.1	11.9	1.42	.927
	59	26	4.8	5.8	7.4	10.4	15.4	19.9	20.8	11.5	10.7	1.71	.776
	60	24	2.9	3.5	6.3	9.0	11.0	15.4	18.1	9.1	8.3	1.68	.807
	57 60	101	2.5	5.2	7.3	9.5	12.5	17.7	20.8	10.3	9.6	1.60	.828
PENNSYLVANIA													
ALLENTOWN	59	26	3.0	5.2	6.5	7.4	8.4	10.4	13.4	7.6	7.4	1.30	.852
HARRISBURG	58	25	3.1	4.3	5.8	7.3	9.0	15.4	18.6	8.0	7.3	1.59	.759
	60	25	5.1	6.0	7.3	8.3	9.2	11.0	11.5	8.3	8.1	1.26	.868
	58 60	50	3.1	4.6	6.6	7.7	9.0	11.4	18.6	8.2	7.6	1.39	.789
JOHNSTOWN	59	22	4.4	5.2	6.8	8.4	10.1	12.9	13.0	8.6	8.3	1.44	.856
PHILADELPHIA	57	24	3.6	3.9	5.8	6.7	7.5	9.1	9.4	6.4	6.5	1.33	.774
	58	23	1.8	3.8	5.2	6.3	7.3	8.7	8.9	6.2	6.0	1.37	.803
	59	25	1.6	4.3	6.0	7.0	8.2	9.4	12.1	7.0	6.8	1.33	.733
	60	25	4.3	5.2	6.7	7.7	8.6	9.4	12.5	7.3	7.4	1.25	.868
	57 60	97	1.6	4.1	5.9	6.9	7.9	9.1	12.5	6.8	6.6	1.33	.782
PITTSBURGH	57	23	.5	3.5	4.3	4.9	5.8	7.7	10.3	5.2	5.0	1.33	.602
	58	26	5.2	5.8	7.0	8.1	8.9	11.4	12.3	8.2	7.9	1.28	.795
	59	24	3.5	4.7	6.1	8.0	9.2	11.0	12.2	7.8	7.5	1.38	.941
	60	24	4.2	4.7	6.0	6.9	8.1	9.3	10.1	7.0	6.9	1.32	.894
	57 60	97	.5	4.4	5.7	7.0	8.4	10.3	12.3	7.1	6.8	1.40	.789
READING	58	25	4.0	5.2	7.7	9.4	10.7	13.1	16.0	8.9	8.8	1.39	.780
	60	25	4.0	5.2	6.3	7.7	9.7	11.4	12.4	7.8	7.7	1.38	.832
	58 60	50	4.0	5.0	6.8	8.5	10.1	11.9	16.0	8.3	8.1	1.41	.808
SCRANTON	57	26	3.8	4.0	5.4	6.3	7.3	9.4	10.8	6.6	6.2	1.40	.934
	59	26	4.9	6.8	9.4	10.7	12.0	13.4	14.1	10.3	10.2	1.30	.911
	57 59	52	3.8	4.3	6.5	8.0	10.3	12.8	14.1	8.4	7.9	1.52	.869
WILKES BARRE	58	26	3.3	5.2	6.1	7.1	8.6	10.4	11.3	7.4	7.3	1.33	.865
	60	25	4.8	5.2	6.5	7.5	8.8	10.9	13.3	7.9	7.5	1.32	.920
	58 60	51	3.3	5.0	6.2	7.3	8.7	10.6	13.3	7.7	7.3	1.34	.898
YORK	59	25	4.0	4.6	5.3	6.1	7.4	10.9	22.7	7.1	6.5	1.40	.616
PUERTO RICO													
SAN JUAN	57	21	2.0	2.2	3.5	7.3	9.0	11.4	14.5	7.1	5.9	1.96	.033
	59	24	3.9	5.2	7.7	9.1	11.4	16.9	34.2	10.4	9.2	1.53	.473
	60	23	2.3	3.9	5.8	7.4	9.4	16.9	21.1	8.6	7.6	1.68	.400
	57 60	68	2.0	3.5	6.0	8.0	10.1	14.7	34.2	8.8	7.7	1.66	.325
RHODE ISLAND													
PROVIDENCE	57	23	1.8	4.3	6.1	8.0	9.1	13.1	41.1	9.1	7.6	1.50	.404
	58	26	3.8	7.7	9.6	10.4	11.3	13.4	16.4	10.5	10.3	1.22	.807
	59	26	4.1	5.2	7.3	9.7	11.4	13.9	22.1	9.8	9.1	1.48	.779
	60	26	4.4	6.0	7.4	9.9	11.2	13.4	14.4	9.6	9.2	1.39	.791
	57 60	101	1.8	5.3	7.5	9.7	11.1	13.6	41.1	9.8	9.1	1.43	.705

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
SOUTH CAROLINA													
CHARLESTON	59	23	2.9	4.3	8.6	11.4	14.5	18.8	20.8	11.4	10.6	1.70	.735
COLUMBIA	57	24	2.7	4.3	6.0	8.3	12.1	15.9	27.6	9.6	8.3	1.69	.758
	58	24	2.0	8.3	10.6	13.3	15.3	16.9	20.1	12.9	12.6	1.32	.754
	60	23	6.7	7.3	9.1	11.4	12.9	16.9	23.5	11.4	10.9	1.36	.778
	57 60	71	2.0	5.6	8.6	11.2	13.6	16.5	27.6	11.3	10.6	1.51	.734
GREENVILLE	57	26	3.5	5.2	7.0	9.1	12.4	15.4	18.8	10.0	9.2	1.58	.753
	60	25	5.1	6.6	8.6	12.4	13.9	18.2	20.0	12.0	11.3	1.50	.895
	57 60	51	3.5	5.4	7.5	11.4	13.3	16.6	20.0	10.9	10.1	1.57	.834
SOUTH DAKOTA													
SIOUX FALLS	57	26	.6	2.4	3.4	4.4	5.2	7.7	8.2	4.6	4.3	1.57	.257
	58	25	1.5	2.4	3.9	5.2	7.0	11.4	16.3	5.7	5.1	1.77	.014
	59	26	1.5	3.7	4.4	5.1	7.0	13.9	26.8	7.6	6.0	1.71	.457
	60	22	1.5	2.9	4.3	6.0	7.2	9.4	10.9	5.9	5.5	1.59	.718
	57 60	99	.6	2.7	4.0	5.0	6.7	10.4	26.8	6.0	5.1	1.64	.424
TENNESSEE													
CHATTANOOGA	58	24	5.0	6.3	8.3	9.8	11.8	13.6	15.4	9.8	9.7	1.33	.922
	59	26	3.6	6.6	8.0	9.4	11.1	13.9	18.4	9.9	9.5	1.35	.706
	60	25	5.0	6.8	8.3	9.2	11.0	15.4	17.1	9.8	9.6	1.34	.830
	58 60	75	3.6	6.6	8.2	9.4	11.3	13.9	18.4	9.8	9.6	1.33	.844
KNOXVILLE	57	26	4.8	6.3	7.5	9.1	11.4	13.2	17.0	9.6	9.2	1.37	.831
	59	25	4.1	5.2	8.0	9.2	11.0	13.9	17.9	9.5	9.0	1.42	.852
	57 59	51	4.1	5.6	7.6	9.1	11.2	13.5	17.9	9.5	9.0	1.40	.843
MEMPHIS	58	26	5.3	7.7	8.9	10.3	11.8	13.9	16.1	10.5	10.3	1.27	.783
	60	25	5.1	5.7	6.7	7.5	9.1	13.1	16.9	8.4	7.9	1.36	.710
	58 60	51	5.1	6.0	7.4	9.0	11.0	13.6	16.9	9.5	9.0	1.39	.684
NASHVILLE	57	26	4.1	4.6	5.8	6.9	7.7	9.1	17.6	7.0	6.7	1.32	.865
	58	26	4.3	5.8	8.3	10.1	11.2	13.4	20.9	10.0	9.5	1.38	.885
	59	26	5.3	6.7	7.7	9.4	11.4	18.2	53.0	12.1	10.0	1.50	.747
	60	26	4.3	6.8	8.7	10.3	12.7	16.9	19.8	11.1	10.6	1.43	.764
	57 60	104	4.1	5.2	7.3	9.0	10.9	16.6	53.0	10.1	9.1	1.52	.792
TEXAS													
AUSTIN	58	26	3.7	4.3	5.8	7.2	8.3	9.4	21.8	7.6	6.8	1.37	.698
BEAUMONT	59	22	3.5	3.7	4.9	6.3	9.0	18.2	19.7	8.0	6.9	1.81	.460
CORPUS CHRISTI	57	26	1.3	2.4	3.7	4.0	4.9	7.7	12.0	4.6	4.2	1.52	.324
	60	26	1.9	3.5	4.5	5.2	6.9	7.7	10.4	5.7	5.4	1.39	.592
	57 60	52	1.3	2.5	3.9	4.6	6.1	8.6	12.0	5.2	4.8	1.55	.425
DALLAS	57	25	2.9	3.3	4.1	5.0	7.0	12.7	49.4	7.7	5.6	1.69	.425
	58	22	2.8	5.2	7.7	9.1	10.9	12.0	12.4	8.9	8.9	1.42	.704
	60	22	4.0	6.3	9.0	10.2	11.2	13.1	13.7	9.9	9.8	1.30	.848
	57 60	69	2.8	3.8	6.0	8.6	10.6	12.9	49.4	8.8	7.8	1.63	.562
EL PASO	57	26	.4	1.0	2.4	3.1	3.9	6.8	12.0	3.6	2.8	2.05	.180
	60	26	1.4	2.4	3.2	4.6	5.4	7.0	9.1	4.6	4.2	1.56	.638
	57 60	52	.4	1.3	2.8	3.5	4.9	7.2	12.0	4.1	3.5	1.85	.348
FORT WORTH	58	26	3.6	5.6	7.2	8.2	9.1	13.9	18.8	8.9	8.4	1.39	.736
	60	26	2.9	4.6	7.7	9.1	10.6	13.9	14.8	9.0	8.5	1.51	.531
	58 60	52	2.9	4.7	7.3	8.6	9.9	14.5	18.8	8.9	8.4	1.48	.601
GALVESTON	59	23	1.6	3.5	5.0	6.0	6.9	10.4	12.1	6.2	5.9	1.44	.667
HOUSTON	57	26	2.2	2.5	3.3	5.2	7.7	10.9	14.3	6.2	5.1	1.90	.623
	58	25	3.6	4.3	6.3	7.5	8.8	11.4	13.3	7.7	7.3	1.42	.756
	59	24	1.8	2.9	5.0	7.2	9.0	13.1	15.0	7.5	6.7	1.72	.628
	60	26	2.2	4.3	5.9	6.8	8.1	10.8	18.3	7.4	6.9	1.40	.750
	57 60	101	1.8	3.1	5.4	6.9	8.6	11.4	18.3	7.2	6.5	1.63	.654

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter										Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean			
				10	30	50	70	90						
SAN ANTONIO	57	26	1.2	2.0	2.7	3.6	4.2	6.3	8.2	3.8	3.5		1.55	.655
	58	23	1.1	2.4	3.9	5.6	7.3	10.8	22.9	6.3	5.3		1.76	.399
	59	22	1.7	2.9	4.5	5.1	6.1	10.9	11.7	6.0	5.5		1.62	.608
	60	23	2.8	3.5	5.6	6.6	7.7	10.8	15.8	6.9	6.5		1.46	.586
	57 60	94	1.1	2.4	3.8	5.1	6.6	10.2	22.9	5.7	5.0		1.71	.498
TEXAS CITY	59	23	.0	2.4	3.8	4.7	5.4	6.3	10.2	4.7	4.4		1.42	.240
WACO	58	25	1.2	4.3	5.2	6.3	7.5	10.8	11.8	6.4	6.4		1.42	.436
	60	25	3.0	3.7	4.6	5.4	6.2	7.7	22.0	6.3	5.3		1.32	.733
	58 60	50	1.2	3.7	4.8	5.7	6.7	10.1	22.0	6.4	5.8		1.43	.656
UTAH														
SALT LAKE CITY	57	22	3.3	3.7	4.9	6.3	7.3	10.1	10.8	6.3	6.1		1.48	.689
	58	24	4.4	5.6	8.4	9.8	10.7	13.9	14.6	9.3	9.4		1.34	.832
	59	26	4.4	7.0	9.0	10.8	12.4	13.9	16.6	10.5	10.4		1.32	.890
	60	25	4.4	5.8	8.6	10.1	12.1	13.5	14.6	10.0	9.9		1.42	.796
	57 60	97	3.3	4.9	7.4	9.4	10.9	13.7	16.6	9.1	8.8		1.47	.752
VERMONT														
BURLINGTON	57	26	2.0	2.6	3.5	4.9	5.9	7.3	10.0	4.9	4.5		1.51	.444
	58	26	3.8	5.6	6.9	7.7	9.1	11.0	13.0	8.1	7.9		1.30	.802
	59	26	1.7	3.5	5.4	6.5	7.4	9.4	13.5	6.6	6.1		1.44	.655
	60	25	1.5	4.3	4.9	6.6	8.1	10.8	12.1	6.6	6.4		1.46	.421
	57 60	103	1.5	3.1	5.1	6.5	7.6	10.4	13.5	6.5	6.1		1.54	.543
VIRGINIA														
DANVILLE	60	25	3.0	4.3	7.4	9.7	10.9	13.9	16.6	9.0	8.5		1.55	.800
HAMPTON	58	25	2.9	4.3	6.1	7.1	8.6	10.9	11.7	7.1	7.1		1.40	.751
	60	26	2.4	3.9	6.8	9.0	11.4	15.4	18.4	9.4	6.6		1.67	.516
	58 60	51	2.4	3.8	6.2	7.7	9.9	13.4	18.4	8.3	7.6		1.58	.628
NORFOLK	57	25	2.6	3.5	6.3	7.7	9.7	11.4	14.3	7.8	7.4		1.52	.328
	58	25	3.5	4.5	7.3	10.4	12.9	16.9	26.2	10.1	9.3		1.70	.731
	59	26	3.1	4.7	6.7	8.3	9.9	12.7	16.2	8.5	8.0		1.47	.626
	60	26	5.3	6.3	7.3	8.4	9.9	13.9	21.7	9.5	8.7		1.35	.828
	57 60	102	2.6	4.6	6.8	8.4	10.4	13.9	26.2	9.0	8.3		1.51	.669
RICHMOND	57	26	2.9	4.3	6.6	8.0	9.2	13.1	20.0	8.3	7.7		1.53	.576
	59	26	4.1	5.6	8.3	10.6	13.9	19.7	22.8	11.7	10.6		1.69	.734
	57 59	52	2.9	4.6	6.9	8.9	11.4	18.4	22.8	10.0	9.0		1.68	.632
ROANOKE	59	23	4.8	7.0	9.9	12.7	14.8	16.7	17.9	12.2	11.9		1.40	.875
WASHINGTON														
SEATTLE	57	25	2.1	4.3	6.3	8.4	10.2	13.1	14.5	8.4	7.8		1.56	.716
	59	26	3.3	3.9	5.8	7.1	8.3	10.4	12.2	7.0	6.7		1.45	.866
	60	26	3.6	5.2	6.3	7.5	9.4	12.3	17.9	8.1	7.8		1.41	.775
	57 60	77	2.1	4.1	6.1	7.5	9.2	12.1	17.9	7.8	7.3		1.51	.797
SPOKANE	60	26	3.1	5.8	8.1	9.8	10.7	12.7	17.5	9.5	9.1		1.34	.882
TACOMA	58	24	5.6	7.0	10.4	13.9	16.4	22.8	26.7	14.1	13.1		1.54	.910
	60	23	4.3	4.9	7.7	10.2	11.2	16.9	23.4	10.2	9.4		1.54	.874
	58 60	47	4.3	6.0	9.1	11.2	14.3	19.7	26.7	12.2	11.1		1.57	.861
WEST VIRGINIA														
CHARLESTON	57	23	1.5	2.4	3.8	4.5	5.1	6.3	9.2	4.6	4.3		1.39	.887
	58	23	2.2	2.9	5.2	5.8	6.2	9.4	19.7	6.5	5.6		1.42	.806
	59	24	2.1	2.4	3.8	4.3	5.1	7.3	10.3	4.6	4.3		1.44	.898
	60	25	2.1	2.6	3.9	4.8	6.1	7.7	10.2	5.0	4.7		1.51	.851
	57 60	95	1.5	2.7	4.0	4.8	5.8	7.7	19.7	5.2	4.7		1.44	.852
HUNTINGTON	60	24	4.2	6.3	8.6	9.4	11.1	13.9	26.2	10.5	9.6		1.31	.787
WHEELING	57	25	3.0	4.5	5.2	7.7	10.4	12.9	13.8	7.9	7.5		1.58	.768
	59	23	3.5	4.3	6.3	7.7	9.1	11.4	16.9	8.0	7.4		1.43	.851
	57 59	48	3.0	4.5	5.7	7.5	9.7	12.3	16.9	7.9	7.4		1.51	.798

TABLE 2.15 — RELATION OF ORGANIC TO PARTICULATE MATTER: URBAN STATIONS, YEARLY AND CUMULATIVE — Continued

Station Location	Years	Number of Samples	Percent Benzene Soluble Organic Matter									Std Geo Dev	Corr Coef
			Min	Frequency Distribution—Percent					Maximum	Arith Mean	Geo Mean		
				10	30	50	70	90					
WISCONSIN													
MADISON	59	26	1.9	4.7	6.6	7.7	8.8	10.4	13.2	7.5	7.4	1.34	.578
MILWAUKEE	57	25	.6	2.4	3.8	4.7	6.7	7.7	8.7	5.0	4.8	1.57	.464
	58	26	1.1	2.9	4.5	5.5	6.3	8.6	13.1	5.8	5.2	1.51	.276
	59	25	1.4	4.0	4.9	6.1	7.4	11.4	12.1	6.3	6.2	1.47	.422
	60	24	3.7	4.7	6.3	6.9	7.5	9.0	10.8	7.0	6.8	1.23	.859
	57 60	100	.6	3.3	4.7	6.0	7.1	8.8	13.1	6.0	5.7	1.45	.468
RACINE	57	23	2.6	2.9	3.8	4.4	5.1	7.7	8.3	4.7	4.5	1.39	.823
	60	23	2.9	3.5	5.5	6.2	7.2	9.4	14.2	6.6	6.1	1.37	.773
	57 60	46	2.6	3.3	4.3	5.3	6.2	8.4	14.2	5.6	5.2	1.44	.779
WYOMING													
CHEYENNE	57	26	1.4	3.9	5.2	6.8	9.0	13.9	30.9	8.2	7.0	1.64	.377
	58	24	4.3	5.2	6.7	8.3	10.4	15.9	23.6	9.3	8.6	1.52	.652
	59	26	3.4	4.3	6.3	8.3	10.9	13.4	19.5	9.0	8.1	1.58	.596
	60	23	4.7	5.4	6.3	8.1	9.8	13.9	20.3	8.7	8.1	1.43	.772
	57 60	99	1.4	4.6	6.1	7.9	10.0	14.4	30.9	8.8	7.9	1.54	.600

TABLE 2.16—BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY REGIONAL AND NATIONAL SUMMARIES

(Picocuries Per Cubic Meter)

Region or State	Years		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NATIONAL	57	NUMBER	36	38	38	44	203	188	201	189	176	200	199	181
		MAXIMUM	7.4	4.6	12.8	12.5	14.0	380.0	369.1	5435.0	193.1	731.9	6.4	6.8
		AVERAGE	1.8	1.5	2.4	3.3	3.4	11.8	13.2	36.1	19.3	11.7	1.5	1.7
		MINIMUM	0.2	0.4	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.1	0.1
	58	NUMBER	239	234	262	242	267	258	267	259	239	270	248	257
		MAXIMUM	7.7	4.5	59.8	29.0	31.0	19.0	85.0	11.0	6.6	79.9	508.0	35.8
		AVERAGE	1.9	1.5	4.2	7.4	6.3	4.1	5.9	3.3	2.2	9.2	14.4	7.5
		MINIMUM	0.1	0.1	0.1	0.6	0.3	0.1	0.2	0.3	0.1	0.2	0.1	0.8
	59	NUMBER	287	294	324	296	331	304	312	298	289	307	297	303
		MAXIMUM	52.1	39.5	27.9	71.0	23.6	18.3	6.4	2.5	2.9	26.5	0.6	0.5
		AVERAGE	9.0	8.2	8.5	8.9	6.3	3.2	1.3	0.5	0.3	0.2	0.1	0.1
		MINIMUM	1.0	0.5	0.8	0.4	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0
	60	NUMBER	342	306	360	336	309	313	309	375	348	325	317	307
		MAXIMUM	0.4	0.6	26.3	0.5	0.7	0.5	0.5	0.8	0.4	0.5	0.3	0.3
		AVERAGE	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	61	NUMBER	357	349	412	391	346	344	359	408	385	376	340	334
		MAXIMUM	0.3	1.7	0.4	0.6	0.7	0.7	0.4	0.2	262.9	108.0	73.7	40.6
		AVERAGE	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	8.0	16.7	16.0	8.6
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2
NEW ENGLAND	57	NUMBER	3	6	5	6	20	22	24	19	21	19	19	23
		MAXIMUM	1.2	1.9	3.8	8.5	8.1	25.0	49.0	32.0	29.1	18.8	1.9	4.0
		AVERAGE	1.1	1.2	2.4	3.7	3.2	4.4	5.8	4.5	7.7	5.5	1.1	1.4
		MINIMUM	1.0	0.5	1.5	1.5	0.9	0.9	0.7	0.9	1.3	1.1	0.1	0.1
	58	NUMBER	25	27	28	28	34	35	34	34	36	31	30	33
		MAXIMUM	5.7	3.4	21.0	16.0	11.0	8.5	10.0	5.0	5.1	33.0	29.0	17.2
		AVERAGE	1.4	1.2	3.5	7.9	4.5	4.2	3.3	2.1	1.9	8.7	9.4	4.9
		MINIMUM	0.1	0.3	0.2	0.7	1.2	0.2	0.3	0.9	0.1	0.3	1.2	1.8
	59	NUMBER	36	39	44	38	44	40	43	41	35	46	38	41
		MAXIMUM	21.0	24.7	18.8	71.0	17.2	7.5	3.1	2.1	0.9	0.3	0.3	0.2
		AVERAGE	7.1	8.3	7.3	10.3	5.4	2.8	1.2	0.6	0.3	0.1	0.1	0.1
		MINIMUM	2.5	2.2	1.2	2.3	0.5	0.0	0.3	0.1	0.1	0.0	0.0	0.0
	60	NUMBER	47	46	51	47	46	46	44	56	51	48	47	40
		MAXIMUM	0.4	0.2	0.3	0.4	0.3	0.4	0.5	0.4	0.2	0.2	0.3	0.2
		AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	61	NUMBER	46	48	53	54	46	47	4[illegible]	55	52	46	43	43
		MAXIMUM	0.1	0.1	0.2	0.3	0.6	0.4	0.2	0.2	53.0	32.5	29.7	13.8
		AVERAGE	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	6.3	11.3	8.6	4.7
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	1.0
MID ATLANTIC	57	NUMBER			1		29	21	26	23	21	25	26	20
		MAXIMUM			12.8		13.0	23.0	38.5	22.8	93.0	11.6	5.2	5.8
		AVERAGE			12.8		3.9	4.4	6.4	3.3	14.4	5.1	1.5	1.9
		MINIMUM			12.8		0.7	0.6	0.4	0.7	1.5	0.3	0.5	0.6
	58	NUMBER	21	21	26	26	25	26	25	28	15	28	24	24
		MAXIMUM	3.9	3.1	7.9	15.0	29.0	6.6	9.3	5.9	2.7	24.8	18.2	14.4
		AVERAGE	1.6	1.4	2.0	7.1	6.8	3.8	3.8	2.5	1.4	5.8	8.0	5.9
		MINIMUM	0.1	0.5	0.1	0.9	0.7	0.4	0.8	0.6	0.1	0.6	1.3	1.7
	59	NUMBER	43	42	48	47	51	43	45	40	48	38	45	37
		MAXIMUM	17.9	29.0	22.2	19.7	23.6	18.3	5.0	1.9	0.9	0.3	0.3	0.5
		AVERAGE	7.1	8.7	8.4	8.5	6.6	4.6	1.5	0.7	0.3	0.1	0.1	0.1
		MINIMUM	1.2	3.1	1.2	2.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
	60	NUMBER	52	46	50	51	43	46	45	59	49	47	46	48
		MAXIMUM	0.3	0.2	0.3	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.2
		AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61	NUMBER	54	54	62	53	54	55	55	56	56	64	49	48
		MAXIMUM	0.1	0.1	0.1	0.2	0.7	0.3	0.3	0.2	46.5	81.0	50.8	15.3
		AVERAGE	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	4.9	18.1	13.3	6.6
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.5	0.6

TABLE 2.16 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY REGIONAL AND NATIONAL SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
MID EAST	57 NUMBER	2	2		2	12	17	16	17	14	18	17	17
	MAXIMUM	1.8	1.7		5.7	9.4	24.3	15.5	23.4	82.6	10.2	2.3	2.9
	AVERAGE	1.8	1.4		3.5	3.5	4.2	4.5	4.8	11.6	3.9	1.3	1.6
	MINIMUM	1.7	1.0		1.2	0.9	0.6	1.4	0.7	0.8	0.6	0.3	0.4
	58 NUMBER	25	22	26	22	25	27	22	22	20	28	22	27
	MAXIMUM	6.1	3.1	12.2	15.0	12.0	7.5	13.0	8.6	4.0	34.5	17.0	16.4
	AVERAGE	2.0	1.4	3.2	6.7	5.6	4.0	5.4	3.0	2.1	9.0	9.3	8.5
	MINIMUM	0.2	0.1	0.2	0.6	1.8	1.1	1.5	0.5	0.9	0.5	1.8	2.5
	59 NUMBER	33	30	34	34	35	31	33	33	29	33	31	33
	MAXIMUM	20.3	15.5	17.8	16.3	13.2	8.2	4.1	1.3	0.9	0.4	0.6	0.2
	AVERAGE	8.7	9.1	7.5	7.3	6.4	3.1	0.9	0.4	0.3	0.1	0.1	0.1
	MINIMUM	2.2	2.6	2.0	0.9	0.2	0.3	0.2	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	33	32	30	33	28	29	29	33	31	34	30	29
	MAXIMUM	0.2	0.6	26.3	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.2	0.1
	AVERAGE	0.1	0.2	1.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	35	32	42	36	37	31	33	37	36	38	32	31
	MAXIMUM	0.1	0.2	0.3	0.3	0.6	0.2	0.4	0.2	75.0	60.3	63.4	28.1
	AVERAGE	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	5.7	15.4	17.1	8.2
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	2.1	0.2
SOUTH EAST	57 NUMBER	4	3	3	6	19	19	19	20	17	22	20	16
	MAXIMUM	2.3	1.8	2.6	12.1	6.9	271.7	24.7	44.1	47.5	65.8	4.6	2.9
	AVERAGE	1.1	0.9	1.8	4.7	3.4	24.3	8.3	7.6	12.8	12.4	1.9	1.5
	MINIMUM	0.3	0.4	0.9	0.3	0.6	0.4	1.7	0.7	1.7	1.3	0.2	0.7
	58 NUMBER	33	29	31	34	36	32	30	34	27	33	32	34
	MAXIMUM	7.1	4.2	22.0	12.0	16.0	5.9	21.0	6.8	5.3	39.0	30.8	18.6
	AVERAGE	1.9	1.9	3.9	6.0	5.2	3.2	6.7	3.4	2.7	8.2	14.6	8.6
	MINIMUM	0.4	0.7	0.2	2.2	0.4	0.4	0.7	1.1	1.2	0.2	2.6	1.6
	59 NUMBER	34	30	37	31	36	37	36	33	37	35	31	36
	MAXIMUM	24.5	19.7	27.9	21.4	14.9	4.7	2.1	2.5	1.0	0.3	0.3	0.3
	AVERAGE	10.4	8.8	10.3	9.4	6.0	2.1	0.8	0.4	0.4	0.1	0.1	0.1
	MINIMUM	1.0	0.6	1.4	1.1	1.0	0.2	0.1	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	35	28	41	35	31	32	33	33	30	35	30	29
	MAXIMUM	0.3	0.4	1.2	0.4	0.4	0.4	0.3	0.2	0.4	0.1	0.2	0.1
	AVERAGE	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	61 NUMBER	36	36	48	39	35	35	38	43	42	36	38	35
	MAXIMUM	0.1	0.2	0.1	0.3	0.5	0.3	0.2	0.1	247.9	75.6	62.6	23.2
	AVERAGE	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	11.1	18.1	19.8	10.2
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.4	2.1
MID WEST	57 NUMBER	2	2	2	5	37	32	37	34	29	37	37	31
	MAXIMUM	1.4	2.9	3.2	12.5	7.8	4.8	48.6	50.1	117.9	25.2	3.3	3.1
	AVERAGE	1.0	1.9	2.4	5.5	3.5	2.5	6.8	7.7	20.4	5.9	1.5	1.5
	MINIMUM	0.5	0.9	1.5	2.2	0.3	1.0	0.8	1.1	1.4	0.6	0.3	0.4
	58 NUMBER	41	42	39	38	47	38	42	43	46	44	40	40
	MAXIMUM	7.7	2.4	11.0	17.0	15.0	9.2	25.0	11.0	4.1	3.6	27.3	12.0
	AVERAGE	1.7	1.2	2.8	8.3	6.9	4.9	4.6	3.4	1.9	8.4	9.1	6.1
	MINIMUM	0.4	0.2	0.4	0.9	1.8	2.1	0.2	0.9	0.4	0.7	2.7	2.1
	59 NUMBER	38	47	46	47	48	40	47	45	41	54	44	44
	MAXIMUM	14.7	15.1	16.7	18.4	21.4	8.2	4.0	1.8	2.9	0.4	0.3	0.3
	AVERAGE	7.1	6.7	7.5	8.1	6.6	3.6	1.7	0.5	0.4	0.1	0.1	0.1
	MINIMUM	3.8	0.5	2.2	1.7	0.5	0.6	0.2	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	46	43	49	49	40	45	40	57	51	37	45	45
	MAXIMUM	0.3	0.2	0.2	0.4	0.2	0.4	0.3	0.8	0.2	0.2	0.1	0.2
	AVERAGE	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0
	61 NUMBER	48	41	49	50	40	43	46	54	48	45	44	43
	MAXIMUM	0.1	0.1	0.1	0.3	0.6	0.3	0.3	0.2	63.9	48.9	43.1	15.6
	AVERAGE	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	6.4	16.4	16.0	7.4
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.0	1.2	1.5

TABLE 2.16—BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY REGIONAL AND NATIONAL SUMMARIES—Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
GREAT PLAINS	57 NUMBER	5	5	5	5	24	21	21	22	18	24	23	19
	MAXIMUM	7.4	4.5	3.0	6.0	12.7	70.5	324.0	120.1	73.8	40.5	2.7	3.5
	AVERAGE	2.5	2.0	1.8	2.5	3.6	6.2	25.5	17.7	12.6	8.8	1.2	1.4
	MINIMUM	0.5	1.0	0.5	0.4	0.2	1.0	1.5	1.7	1.1	0.5	0.2	0.6
	58 NUMBER	27	24	32	27	28	28	33	27	27	28	29	25
	MAXIMUM	4.4	2.7	18.0	22.0	16.0	7.7	13.0	8.7	6.6	76.0	68.2	16.4
	AVERAGE	1.8	1.3	3.4	8.1	7.3	4.2	4.5	4.1	2.9	11.0	11.0	6.2
	MINIMUM	0.5	0.5	0.2	2.2	2.7	0.9	0.4	0.7	0.2	0.7	0.5	0.8
	59 NUMBER	29	32	30	27	33	32	32	30	27	25	34	32
	MAXIMUM	14.0	25.4	17.1	17.2	19.4	7.9	6.4	1.8	0.8	26.5	0.3	0.2
	AVERAGE	7.9	7.1	7.3	8.9	6.0	3.8	1.9	0.4	0.3	1.2	0.1	0.1
	MINIMUM	1.3	2.1	0.8	1.2	0.3	0.5	0.3	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	34	23	31	28	30	26	27	33	33	30	26	28
	MAXIMUM	0.2	0.4	0.3	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1
	AVERAGE	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	31	33	33	37	28	30	33	38	37	34	31	28
	MAXIMUM	0.1	0.1	0.2	0.3	0.5	0.3	0.2	0.2	15.9	31.7	41.8	13.6
	AVERAGE	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	4.4	15.3	14.2	6.6
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.2	2.2	0.2
GULF SOUTH	57 NUMBER	4	5	5	4	18	18	20	17	20	18	19	18
	MAXIMUM	1.5	2.4	5.7	3.0	7.0	99.9	27.7	71.3	193.1	31.2	3.8	3.2
	AVERAGE	1.2	1.1	3.1	1.8	2.7	12.4	9.6	14.6	53.3	10.9	1.5	1.8
	MINIMUM	1.0	0.4	1.0	0.3	0.6	0.8	1.5	1.8	1.3	1.4	0.1	0.8
	58 NUMBER	20	20	22	20	21	19	23	20	19	27	17	19
	MAXIMUM	3.6	4.5	12.5	15.0	13.0	9.7	85.0	7.7	5.0	33.5	27.2	16.8
	AVERAGE	2.2	2.1	4.0	6.1	6.1	3.7	8.6	4.4	1.4	10.7	13.1	8.9
	MINIMUM	0.9	0.8	0.5	0.7	1.6	0.5	1.1	2.2	0.1	1.1	2.3	3.7
	59 NUMBER	23	24	30	23	32	26	26	26	24	26	24	24
	MAXIMUM	20.1	39.5	20.1	19.2	17.5	6.4	2.0	0.8	1.0	0.3	0.4	0.4
	AVERAGE	11.3	9.1	11.5	9.0	6.9	2.1	0.8	0.4	0.3	0.1	0.2	0.2
	MINIMUM	4.5	1.9	5.2	1.4	1.0	0.7	0.1	0.1	0.0	0.0	0.0	0.1
	60 NUMBER	32	27	40	27	31	28	28	35	35	30	31	28
	MAXIMUM	0.4	0.3	0.8	0.4	0.7	0.5	0.2	0.5	0.2	0.5	0.1	0.1
	AVERAGE	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	39	39	42	46	36	40	41	41	40	42	37	39
	MAXIMUM	0.2	0.3	0.4	0.6	0.5	0.4	0.2	0.1	262.9	44.1	69.2	25.6
	AVERAGE	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	20.5	16.3	20.8	11.7
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.5	1.0
ROCKY MOUNTAIN	57 NUMBER	3	4	3	3	12	11	10	10	9	10	8	11
	MAXIMUM	4.9	4.6	2.5	4.6	14.0	21.4	156.0	5435.0	159.2	233.7	2.1	4.9
	AVERAGE	3.3	2.5	1.9	3.0	5.4	5.9	63.3	549.2	32.8	33.4	1.3	2.4
	MINIMUM	1.7	1.3	1.2	0.8	0.2	0.7	3.3	1.2	2.6	0.8	0.2	0.6
	58 NUMBER	17	18	22	16	20	17	20	18	17	17	19	20
	MAXIMUM	4.9	2.9	59.8	29.0	24.0	16.0	57.0	8.8	6.4	51.0	508.0	19.5
	AVERAGE	2.2	1.8	7.4	10.7	8.8	6.3	14.0	5.3	3.5	10.4	40.4	10.4
	MINIMUM	0.6	0.9	0.6	3.2	1.7	0.6	1.5	0.7	0.9	2.1	3.3	1.8
	59 NUMBER	19	16	20	18	19	19	19	20	13	21	17	21
	MAXIMUM	27.9	21.1	18.3	39.4	15.3	8.8	5.3	1.5	0.8	0.8	0.3	0.4
	AVERAGE	11.9	8.3	10.0	11.3	6.0	4.3	1.6	0.6	0.4	0.2	0.2	0.2
	MINIMUM	5.3	3.5	2.6	0.6	1.4	1.3	0.4	0.2	0.2	0.0	0.0	0.0
	60 NUMBER	22	15	19	16	17	16	19	18	18	17	19	19
	MAXIMUM	0.3	0.5	0.8	0.4	0.5	0.3	0.4	0.2	0.1	0.4	0.2	0.3
	AVERAGE	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
	61 NUMBER	19	15	24	18	17	18	19	21	17	20	15	19
	MAXIMUM	0.3	0.1	0.1	0.2	0.5	0.4	0.2	0.1	46.2	52.5	42.8	40.6
	AVERAGE	0.1	0.0	0.1	0.1	0.3	0.2	0.1	0.1	11.2	17.7	16.5	16.2
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	1.7	3.2	4.3

TABLE 2.16—BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY REGIONAL AND NATIONAL SUMMARIES—Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
PACIFIC COAST	57 NUMBER	13	11	14	13	32	27	28	27	25	27	30	26
	MAXIMUM	5.6	3.0	5.5	7.3	7.5	380.0	369.1	5.1	54.6	731.9	6.4	6.8
	AVERAGE	1.9	1.5	1.9	2.4	2.7	37.2	17.8	1.6	8.1	29.8	1.7	2.0
	MINIMUM	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.3	0.2	1.0	0.2	0.3
	58 NUMBER	30	31	36	31	31	36	38	33	32	34	35	35
	MAXIMUM	7.7	3.6	36.0	19.0	31.0	19.0	66.0	7.7	6.6	79.9	126.0	35.8
	AVERAGE	2.4	1.4	7.7	6.8	6.5	3.3	5.7	3.0	2.3	11.2	21.5	9.7
	MINIMUM	0.4	0.4	0.6	1.3	0.3	0.1	0.2	0.3	0.2	0.3	0.1	2.3
	59 NUMBER	32	34	35	31	33	36	31	30	35	29	33	35
	MAXIMUM	52.1	27.0	20.5	17.8	13.4	11.9	2.8	1.1	0.6	0.4	0.4	0.5
	AVERAGE	12.4	8.2	8.5	9.0	6.2	2.8	1.0	0.5	0.3	0.1	0.2	0.1
	MINIMUM	1.1	2.0	0.8	0.4	0.2	0.7	0.1	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	41	44	49	50	43	45	44	46	50	47	43	41
	MAXIMUM	0.3	0.4	1.9	0.5	0.5	0.5	0.3	0.4	0.1	0.3	0.2	0.3
	AVERAGE	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	49	51	59	58	53	45	51	63	57	51	52	50
	MAXIMUM	0.2	1.7	0.2	0.5	0.5	0.7	0.2	0.1	53.0	108.0	73.7	30.2
	AVERAGE	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.0	5.7	21.0	18.7	9.5
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.7	0.4

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
ALABAMA	57 NUMBER					3	2	2	1	2	3	1	
	MAXIMUM					6.1	4.3	23.4	5.9	14.6	6.7	1.5	
	AVERAGE					2.7	3.1	14.0	5.9	8.6	4.0	1.5	
	MINIMUM					0.6	1.8	4.6	5.9	2.5	1.3	1.5	
	58 NUMBER	6	4	5	4	9	5	5	6	4	5	[illegible]	7
	MAXIMUM	1.9	2.8	12.0	10.0	11.0	5.9	18.0	6.8	5.3	10.0	20.3	11.4
	AVERAGE	1.3	1.8	4.4	7.3	6.1	4.0	8.6	4.0	2.7	7.0	13.2	6.7
	MINIMUM	0.6	1.3	0.9	4.4	1.7	1.4	2.4	1.9	1.2	2.6	2.6	1.6
	59 NUMBER	6	7	6	5	7	8	6	6	6	5	6	6
	MAXIMUM	24.5	19.7	14.5	17.0	13.4	4.3	1.2	0.8	0.8	0.1	0.3	0.3
	AVERAGE	12.1	11.1	8.7	8.7	8.7	1.9	0.7	0.3	0.5	0.0	0.2	0.1
	MINIMUM	5.7	0.6	3.8	2.5	2.4	0.8	0.3	0.1	0.1	0.0	0.1	0.0
	60 NUMBER	5	3	5	5	3	3	6	3	5	4	4	4
	MAXIMUM	0.1	0.1	0.4	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
	61 NUMBER	5	4	5	4	4	4	4	5	5	4	4	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	7.5	58.3	49.9	13.1
	AVERAGE	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	3.5	24.5	27.1	5.8
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	12.9	9.0	2.1
ALASKA	57 NUMBER	1	2	2	2	2	3	3	1	2	2	3	2
	MAXIMUM	1.1	1.1	1.0	2.0	1.6	1.4	4.0	0.7	4.8	1.4	1.4	1.0
	AVERAGE	1.1	1.0	0.8	2.0	1.2	0.7	1.7	0.7	2.8	1.2	1.1	0.9
	MINIMUM	1.1	0.8	0.5	1.9	0.7	0.3	0.4	0.7	0.8	1.0	0.7	0.8
	58 NUMBER	4	4	4	4	3	5	4	4	3	6	4	4
	MAXIMUM	4.0	3.0	8.1	4.2	5.3	1.8	0.8	0.6	0.4	11.3	4.1	9.6
	AVERAGE	2.0	1.4	4.1	2.7	3.0	0.8	0.5	0.5	0.3	6.6	2.9	5.7
	MINIMUM	0.4	0.6	0.6	1.6	0.7	0.1	0.2	0.4	0.2	0.6	2.2	3.5
	59 NUMBER	4	4	5	4	4	5	4	4	4	5	2	5
	MAXIMUM	14.4	4.4	8.0	17.8	11.8	2.9	1.2	1.1	0.6	0.1	0.1	0.1
	AVERAGE	8.5	3.7	5.5	7.5	4.4	1.9	0.6	0.9	0.3	0.1	0.1	0.1
	MINIMUM	4.9	3.3	2.2	0.4	0.2	1.0	0.2	0.6	0.2	0.0	0.1	0.1
	60 NUMBER	4	5	4	5	4	4	5	3	6	4	4	4
	MAXIMUM	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
	MINIMUM	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
	61 NUMBER	4	4	4	6	4	4	4	6	4	3	5	3
	MAXIMUM	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.1	12.2	9.9	27.7	7.3
	AVERAGE	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	4.1	5.7	14.5	6.4
	MINIMUM	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	2.9	6.4	5.6
ARIZONA	57 NUMBER					3	2	2	2	2	3	2	2
	MAXIMUM					7.5	3.0	369.1	5.1	14.3	731.9	6.4	3.2
	AVERAGE					6.2	2.8	198.4	3.7	13.2	245.8	5.0	2.4
	MINIMUM					5.0	2.5	27.7	2.2	12.0	1.9	3.6	1.5
	58 NUMBER	2	2	3	1	3	2	2	2	2	1	1	2
	MAXIMUM	3.7	3.2	16.0	19.0	31.0	5.6	17.0	7.7	6.6	3.2	63.7	24.1
	AVERAGE	3.2	2.7	6.9	19.0	15.9	5.3	16.5	6.1	5.3	3.2	63.7	17.9
	MINIMUM	2.7	2.2	1.4	19.0	8.2	5.0	16.0	4.5	4.0	3.2	63.7	11.6
	59 NUMBER	4	5	4	3	5	5	2	4	4	4	4	5
	MAXIMUM	52.1	16.0	20.5	10.7	13.4	11.9	0.6	1.0	0.4	0.4	0.3	0.2
	AVERAGE	29.0	11.1	15.1	9.0	8.7	4.1	0.5	0.6	0.2	0.3	0.2	0.1
	MINIMUM	12.9	5.9	8.0	6.7	4.2	1.5	0.3	0.3	0.1	0.1	0.2	0.1
	60 NUMBER	8	7	9	9	8	8	9	6	6	12	7	8
	MAXIMUM	0.3	0.3	1.9	0.5	0.5	0.5	0.3	0.3	0.1	0.2	0.1	0.2
	AVERAGE	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.2	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1
	61 NUMBER	10	6	10	9	9	6	8	9	10	8	8	7
	MAXIMUM	0.1	0.1	0.2	0.5	0.5	0.3	0.2	0.1	21.0	108.0	50.4	25.0
	AVERAGE	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.0	4.4	42.0	22.0	16.3
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	4.1	2.5	6.1

TABLE 2.17 – BETA RADIOACTIVITY URBAN AND NONURBAN, MONTHLY STATE SUMMARIES – Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
ARKANSAS	57 NUMBER					2	2	2	3	2	2	2	2
	MAXIMUM					3.4	1.2	13.6	71.3	4.9	8.4	1.6	1.2
	AVERAGE					2.4	1.1	8.6	26.4	4.4	5.9	1.5	1.2
	MINIMUM					1.4	1.0	3.3	1.9	3.9	3.4	1.4	1.1
	58 NUMBER	2	2	3	2	2	1	3	2	2	2	2	3
	MAXIMUM	2.2	3.5	7.7	5.0	12.6	2.4	8.5	3.7	2.1	7.3	16.5	7.4
	AVERAGE	1.8	2.6	5.1	2.9	9.8	2.4	4.5	3.5	1.1	4.3	14.7	6.0
	MINIMUM	1.4	1.7	2.9	0.7	6.9	2.4	1.1	3.2	0.1	1.3	12.9	3.7
	59 NUMBER	4	5	4	3	5	4	5	5	4	4	5	4
	MAXIMUM	16.8	12.4	16.8	12.9	17.5	1.8	1.9	0.5	0.3	0.2	0.3	0.2
	AVERAGE	12.5	8.3	11.4	9.2	6.6	1.3	0.9	0.3	0.2	0.2	0.2	0.1
	MINIMUM	10.6	2.2	6.7	4.6	1.0	0.9	0.4	0.1	0.1	0.1	0.1	0.1
	60 NUMBER	4	4	6	4	4	4	5	4	5	3	5	4
	MAXIMUM	0.2	0.1	0.2	0.4	0.3	0.3	0.2	0.1	0.2	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.3	0.2	0.3	0.1	0.0	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.1	0.1	0.1
	61 NUMBER	4	4	4	4	4	4	4	5	3	5	4	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.0	23.1	43.9	9.2
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	18.3	23.8	6.1
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	12.4	8.8	4.1
CALIFORNIA	57 NUMBER	5	4	6	3	17	12	13	13	10	12	15	13
	MAXIMUM	5.6	2.1	5.5	7.3	6.9	350.0	27.3	4.1	11.3	4.6	2.5	6.8
	AVERAGE	2.5	1.5	2.3	5.2	2.5	30.5	4.5	1.8	4.8	2.8	1.6	2.6
	MINIMUM	1.0	0.8	0.2	1.9	0.3	0.4	0.6	0.3	1.7	1.0	0.8	0.4
	58 NUMBER	17	15	18	19	17	19	21	18	17	18	18	19
	MAXIMUM	7.7	2.3	36.0	19.0	12.0	5.5	18.0	7.3	5.0	79.9	126.0	35.8
	AVERAGE	2.5	1.2	8.9	6.7	5.5	2.9	4.3	3.6	2.6	13.8	33.7	10.9
	MINIMUM	0.6	0.6	1.0	1.3	0.3	1.3	0.2	0.3	1.3	0.8	0.5	3.9
	59 NUMBER	14	14	15	15	13	15	14	13	17	12	15	16
	MAXIMUM	33.8	27.0	15.3	15.1	12.0	7.8	2.8	0.7	0.4	0.4	0.4	0.5
	AVERAGE	11.5	9.1	9.3	9.1	7.3	2.7	1.2	0.5	0.2	0.2	0.2	0.2
	MINIMUM	1.6	2.4	3.4	4.1	1.0	0.8	0.3	0.2	0.1	0.1	0.1	0.1
	60 NUMBER	20	21	23	22	19	21	18	24	24	21	19	17
	MAXIMUM	0.3	0.4	0.9	0.5	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.3
	AVERAGE	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	18	19	23	22	20	18	21	24	20	21	21	21
	MAXIMUM	0.2	0.1	0.1	0.2	0.5	0.7	0.2	0.1	19.8	48.6	73.7	30.2
	AVERAGE	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.0	5.1	20.6	22.7	9.7
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.4	1.8
COLORADO	57 NUMBER	2	2	1	1	2	2	2		2	2	2	3
	MAXIMUM	3.3	1.8	2.1	4.6	5.7	21.4	106.3		159.2	63.1	1.5	3.2
	AVERAGE	2.5	1.6	2.1	4.6	3.4	18.0	85.3		86.6	32.1	0.9	2.2
	MINIMUM	1.7	1.3	2.1	4.6	1.0	14.6	64.2		14.0	1.0	0.2	1.6
	58 NUMBER	4	4	5	4	3	3	6	5	3	4	6	4
	MAXIMUM	3.0	2.1	8.6	17.0	9.2	15.0	49.0	8.8	4.9	26.8	29.1	11.9
	AVERAGE	2.3	1.7	3.7	10.6	6.6	8.4	18.3	5.4	3.1	9.6	13.9	8.7
	MINIMUM	1.4	1.3	0.6	8.3	3.1	4.6	5.5	3.5	1.2	2.5	4.3	4.6
	59 NUMBER	4	3	4	5	4	4	3	3	4	4	4	4
	MAXIMUM	16.2	14.9	18.0	39.4	15.3	2.8	1.0	0.4	0.7	0.2	0.3	0.2
	AVERAGE	11.5	10.5	13.4	13.3	6.4	2.0	0.9	0.3	0.4	0.2	0.2	0.1
	MINIMUM	8.3	7.6	4.7	1.8	1.7	1.3	0.6	0.2	0.2	0.1	0.1	0.0
	60 NUMBER	6	1	6	4	4	3	4	5	3	4	4	4
	MAXIMUM	0.3	0.5	0.8	0.4	0.5	0.3	0.2	0.1	0.1	0.3	0.1	0.1
	AVERAGE	0.2	0.5	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.1
	MINIMUM	0.1	0.5	0.0	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.1
	61 NUMBER	4	4	5	4	4	4	4	5	4	5	3	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.2	0.1	0.1	26.1	33.6	17.3	28.4
	AVERAGE	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	9.6	19.5	9.8	19.7
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	7.4	3.2	13.7

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
CONNECTICUT	57 NUMBER	3	4	2	5	7	4	9	5	6	6	6	7
	MAXIMUM	1.2	1.8	3.8	8.5	7.4	15.0	49.0	10.0	29.1	8.8	1.4	4.0
	AVERAGE	1.1	1.2	2.9	4.1	3.5	5.9	11.9	3.0	11.0	3.9	0.9	2.0
	MINIMUM	1.0	0.5	1.9	1.5	1.5	1.5	1.2	1.0	1.6	1.1	0.1	1.2
	58 NUMBER	4	7	8	8	11	13	10	11	8	12	11	10
	MAXIMUM	2.6	1.9	3.7	10.0	7.7	8.5	5.0	3.6	2.7	22.0	20.6	6.5
	AVERAGE	1.4	1.2	1.6	7.4	4.7	5.2	2.9	2.0	2.0	8.3	10.2	3.7
	MINIMUM	0.2	0.3	0.4	1.8	1.2	0.9	1.1	1.1	1.3	0.3	4.8	1.9
	59 NUMBER	8	8	9	7	7	10	9	7	7	10	9	8
	MAXIMUM	15.2	13.7	11.7	13.1	9.4	7.5	2.1	1.4	0.5	0.2	0.3	0.1
	AVERAGE	6.3	7.6	7.0	9.5	4.4	3.9	1.0	0.6	0.3	0.1	0.1	0.0
	MINIMUM	3.2	4.5	2.2	6.9	0.5	0.8	0.4	0.2	0.2	0.0	0.0	0.0
	60 NUMBER	9	8	10	8	8	8	8	10	10	7	9	6
	MAXIMUM	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
	61 NUMBER	7	8	10	10	6	7	7	10	6	9	6	7
	MAXIMUM	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.1	44.1	19.7	14.6	12.4
	AVERAGE	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	11.0	14.2	9.1	4.4
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	6.5	2.9	1.8
DELAWARE	57 NUMBER			1		3	2	2	3		2	3	1
	MAXIMUM			12.8		7.4	4.7	4.6	3.2		5.3	2.8	1.4
	AVERAGE			12.8		4.1	3.7	2.8	2.9		5.1	1.9	1.4
	MINIMUM			12.8		1.2	2.7	1.0	2.7		4.8	0.8	1.4
	58 NUMBER	3	1	2	2	3	2	2	2		3	1	2
	MAXIMUM	3.5	1.9	2.3	12.0	9.9	6.2	4.1	5.9		6.9	9.3	8.3
	AVERAGE	2.2	1.9	1.6	7.7	5.0	6.0	3.3	4.9		3.7	9.3	7.8
	MINIMUM	0.9	1.9	0.8	3.4	0.7	5.7	2.5	3.8		0.8	9.3	7.3
	59 NUMBER	1	1	3	3	2	2	1	3	2	3	2	2
	MAXIMUM	6.3	4.8	19.5	12.4	3.1	3.6	1.4	0.9	0.4	0.2	0.1	0.2
	AVERAGE	6.3	4.8	13.7	8.0	2.2	3.5	1.4	0.6	0.4	0.2	0.1	0.2
	MINIMUM	6.3	4.8	9.9	3.9	1.2	3.3	1.4	0.4	0.4	0.2	0.1	0.1
	60 NUMBER	2	2	2	2	2	2	2	1	3	2	1	3
	MAXIMUM	0.2	0.2	0.3	0.3	0.5	0.3	0.2	0.1	0.1	0.0	0.1	0.2
	AVERAGE	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.1	0.1
	MINIMUM	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.0
	61 NUMBER	4	4	3	3	5	4	5	3	3	6	3	2
	MAXIMUM	0.0	0.1	0.1	0.1	0.5	0.2	0.1	0.1	6.5	23.6	29.3	12.3
	AVERAGE	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.1	2.2	13.9	19.5	6.6
	MINIMUM	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	6.7	9.4	0.8
DIST OF COL.	58 NUMBER	2	2	3	1	1	3	1	2	3	1	2	3
	MAXIMUM	3.3	1.1	10.0	6.1	4.3	4.1	2.2	3.1	2.2	17.6	16.4	7.6
	AVERAGE	2.1	0.9	4.8	6.1	4.3	3.1	2.2	2.5	2.1	17.6	12.1	6.6
	MINIMUM	0.9	0.7	2.1	6.1	4.3	1.3	2.2	1.9	2.0	17.6	7.8	5.8
	59 NUMBER	2	2	2	2	2	1	1	2	2	2	2	2
	MAXIMUM	13.0	15.5	10.5	9.2	8.5	8.1	0.5	0.2	0.4	0.2	0.1	0.2
	AVERAGE	9.8	11.9	7.1	6.5	5.6	8.1	0.5	0.2	0.4	0.2	0.1	0.2
	MINIMUM	6.6	8.3	3.7	3.8	2.7	8.1	0.5	0.1	0.4	0.1	0.1	0.1
	60 NUMBER	2	2	1	2	2	2	2	1	2	2	2	2
	MAXIMUM	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.2	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.1
	61 NUMBER	1	2	2	2	3	2	1	2	2	3	2	1
	MAXIMUM	0.0	0.1	0.1	0.1	0.4	0.2	0.1	0.2	0.1	19.8	38.2	0.2
	AVERAGE	0.0	0.1	0.1	0.1	0.3	0.2	0.1	0.1	0.1	14.4	28.4	0.2
	MINIMUM	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	7.2	18.5	0.2

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
FLORIDA	57 NUMBER	4	3	2	4	4	4	4	4	3	5	5	4
	MAXIMUM	2.3	1.8	2.6	5.8	4.2	47.6	9.7	43.1	34.0	65.8	4.6	1.9
	AVERAGE	1.1	0.9	2.3	2.0	2.7	13.7	5.4	12.2	16.3	17.0	2.8	1.5
	MINIMUM	0.3	0.4	2.0	0.3	1.8	1.2	2.1	0.7	2.6	1.3	1.4	0.9
	58 NUMBER	6	6	5	8	7	6	4	6	7	7	5	7
	MAXIMUM	7.1	3.3	22.0	10.0	16.0	4.7	5.2	3.6	4.3	39.0	20.4	18.6
	AVERAGE	3.1	3.0	8.0	6.2	4.2	2.9	4.0	2.8	2.7	10.8	10.3	9.8
	MINIMUM	0.9	2.1	3.8	4.4	0.4	1.7	1.8	1.4	1.5	2.2	4.7	6.0
	59 NUMBER	6	6	6	6	6	6	7	6	6	6	7	6
	MAXIMUM	22.2	12.1	21.0	16.7	10.1	2.7	1.3	0.5	0.9	0.2	0.1	0.2
	AVERAGE	12.4	5.6	14.7	9.8	4.6	1.9	0.6	0.3	0.5	0.1	0.1	0.1
	MINIMUM	3.5	2.3	7.6	2.8	2.3	0.6	0.3	0.1	0.1	0.0	0.1	0.1
	60 NUMBER	7	5	7	6	5	7	7	5	6	6	6	5
	MAXIMUM	0.3	0.4	1.2	0.2	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.2	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	61 NUMBER	9	10	13	11	8	11	10	10	11	10	10	10
	MAXIMUM	0.1	0.1	0.1	0.3	0.5	0.2	0.2	0.1	31.7	18.2	62.6	23.2
	AVERAGE	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	6.3	9.2	21.4	14.0
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	3.8	3.0
GEORGIA	57 NUMBER				2	4	4	4	4	4	6	3	3
	MAXIMUM				12.1	6.9	11.5	23.8	9.2	19.6	9.7	3.6	2.9
	AVERAGE				10.0	4.0	5.8	9.0	4.2	13.0	6.6	2.0	2.0
	MINIMUM				7.9	2.4	0.4	3.0	1.8	2.2	4.5	1.0	0.7
	58 NUMBER	8	8	8	9	8	7	10	9	7	7	8	8
	MAXIMUM	2.6	2.3	5.7	8.5	10.9	4.8	11.0	4.8	4.2	16.2	24.2	13.4
	AVERAGE	1.4	1.6	1.7	4.6	5.3	2.7	4.7	3.7	2.8	8.4	16.0	9.8
	MINIMUM	0.4	0.7	0.6	2.2	1.5	0.5	0.7	2.8	1.5	2.5	9.2	3.6
	59 NUMBER	7	5	7	6	6	5	6	7	6	4	5	7
	MAXIMUM	18.0	11.1	27.9	21.4	14.9	3.9	2.1	1.2	0.7	0.1	0.2	0.2
	AVERAGE	8.6	6.7	14.4	10.3	6.6	2.0	0.9	0.5	0.3	0.1	0.1	0.1
	MINIMUM	4.6	1.7	9.1	1.1	1.1	0.2	0.3	0.2	0.1	0.0	0.0	0.1
	60 NUMBER	6	6	9	6	6	6	5	7	5	7	6	4
	MAXIMUM	0.1	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
	61 NUMBER	6	6	8	5	6	6	6	8	6	7	5	6
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.3	0.2	0.1	12.3	51.2	23.0	13.6
	AVERAGE	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	4.6	21.3	12.3	8.2
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	6.2	7.6	4.3
HAWAII	57 NUMBER	2	4	4	4	4	3	4	5	4	3	5	3
	MAXIMUM	1.8	3.0	3.7	3.4	3.4	1.9	2.3	1.7	8.6	7.2	2.5	2.4
	AVERAGE	1.2	1.7	1.9	1.9	2.6	1.3	0.9	0.8	3.2	3.3	0.9	1.2
	MINIMUM	0.6	0.4	0.7	0.7	1.7	0.6	0.4	0.3	0.2	1.0	0.2	0.3
	58 NUMBER	1	2	2	3	1	2	2	1	3	1	2	3
	MAXIMUM	0.5	3.6	6.2	8.3	6.6	5.8	4.2	2.7	2.8	4.2	5.9	17.1
	AVERAGE	0.5	2.7	3.7	5.5	6.6	4.6	3.7	2.7	1.9	4.2	5.2	11.1
	MINIMUM	0.5	1.8	1.1	3.4	6.6	3.3	3.1	2.7	1.1	4.2	4.5	7.6
	59 NUMBER	5	4	3	5	5	4	4	4	4	5	5	3
	MAXIMUM	16.1	14.2	9.2	14.6	8.9	1.9	0.9	0.4	0.5	0.1	0.1	0.1
	AVERAGE	7.7	8.7	6.6	7.9	4.3	1.3	0.8	0.3	0.4	0.0	0.1	0.1
	MINIMUM	1.1	4.5	3.8	2.8	2.0	0.9	0.7	0.1	0.1	0.0	0.0	0.0
	60 NUMBER		2	5	5	4	4	4	6	4	3	5	4
	MAXIMUM		0.1	0.6	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1
	AVERAGE		0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
	MINIMUM		0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	5	5	3	5	4	4	3	5	5	4	4	4
	MAXIMUM	0.1	0.0	0.0	0.2	0.3	0.1	0.1	0.0	4.2	13.0	26.9	3.8
	AVERAGE	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.0	2.0	7.5	13.4	2.6
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	1.6	5.8	1.9

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
IDAHO	57 NUMBER					3	2	2	3	2	2	2	1
	MAXIMUM					14.0	3.0	142.3	4.2	45.3	3.6	2.0	0.6
	AVERAGE					7.6	2.4	77.8	3.0	29.5	2.6	1.7	0.6
	MINIMUM					0.7	1.7	13.3	2.1	13.6	1.5	1.4	0.6
	58 NUMBER	3	4	5	3	4	5	4	4	5	2	3	5
	MAXIMUM	2.3	2.9	59.8	25.0	10.0	16.0	10.0	7.8	6.4	5.1	38.3	19.5
	AVERAGE	1.4	2.1	16.3	11.5	5.6	8.2	5.2	4.6	4.1	3.7	22.8	11.0
	MINIMUM	0.9	1.4	2.3	3.6	1.7	2.1	1.9	0.7	1.6	2.3	9.9	1.8
	59 NUMBER	5	3	5	5	3	4	5	4	2	4	5	4
	MAXIMUM	27.9	10.1	18.3	25.3	5.5	8.1	2.9	1.5	0.8	0.8	0.2	0.3
	AVERAGE	12.6	6.4	10.5	12.3	4.9	4.6	1.5	0.9	0.5	0.4	0.2	0.2
	MINIMUM	7.0	4.3	4.1	7.2	4.3	1.9	0.4	0.4	0.2	0.2	0.2	0.1
	60 NUMBER	5	4	4	3	5	3	5	1	5	2	5	4
	MAXIMUM	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.3
	AVERAGE	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0
	61 NUMBER	5	3	5	5	3	4	6	3	4	4	3	4
	MAXIMUM	0.3	0.0	0.1	0.2	0.4	0.3	0.2	0.1	14.3	35.2	19.3	19.3
	AVERAGE	0.2	0.0	0.1	0.2	0.3	0.2	0.1	0.1	6.6	14.8	13.9	13.3
	MINIMUM	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	1.7	8.8	4.3
ILLINOIS	58 NUMBER	7	7	7	6	9	6	10	8	8	7	8	8
	MAXIMUM	1.8	2.2	8.7	17.0	15.0	8.8	25.0	11.0	4.1	16.7	22.6	8.2
	AVERAGE	1.3	1.7	3.9	10.4	8.5	5.4	7.1	4.3	2.1	8.7	8.5	6.3
	MINIMUM	0.8	1.2	0.9	3.3	5.0	3.0	0.2	1.2	1.2	3.0	3.2	4.1
	59 NUMBER	5	8	5	8	7	5	6	4	5	8	4	6
	MAXIMUM	14.7	12.1	13.0	12.2	21.4	6.4	2.0	0.6	0.6	0.2	0.3	0.1
	AVERAGE	9.3	6.5	7.0	8.7	6.9	2.4	1.4	0.4	0.4	0.1	0.2	0.1
	MINIMUM	5.0	2.5	3.4	5.1	0.5	0.6	0.3	0.2	0.2	0.0	0.1	0.1
	60 NUMBER	2	2	1	2		2	1	3	1	3	2	2
	MAXIMUM	0.2	0.2	0.2	0.3		0.2	0.1	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.2	0.2		0.2	0.1	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.2	0.1		0.1	0.1	0.2	0.1	0.1	0.0	0.1
	61 NUMBER	7	5	8	7	6	6	6	8	5	6	6	5
	MAXIMUM	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	6.9	27.4	29.7	7.8
	AVERAGE	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	1.6	18.2	16.7	5.7
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	12.8	2.1	3.5
INDIANA	57 NUMBER				1	10	7	10	7	6	10	8	8
	MAXIMUM				3.4	6.8	4.4	48.6	41.8	6.5	25.2	2.3	2.8
	AVERAGE				3.4	3.5	2.7	10.8	10.5	4.2	8.0	1.0	1.8
	MINIMUM				3.4	0.6	1.6	0.8	1.9	1.4	1.9	0.3	0.6
	58 NUMBER	9	6	8	9	10	7	6	9	12	6	7	7
	MAXIMUM	4.8	1.9	5.6	15.0	10.0	8.9	5.6	5.0	3.0	15.7	12.7	8.4
	AVERAGE	1.9	1.3	2.7	9.2	6.5	5.2	4.0	2.9	2.2	9.1	8.1	5.9
	MINIMUM	1.1	0.6	0.5	0.9	2.3	2.7	2.4	0.9	0.6	4.6	3.3	2.1
	59 NUMBER	7	7	7	9	6	7	7	9	8	11	7	8
	MAXIMUM	7.8	9.0	13.5	12.7	14.2	7.9	3.7	1.3	0.7	0.3	0.2	0.2
	AVERAGE	6.5	7.2	6.2	7.2	6.7	4.5	1.6	0.5	0.3	0.2	0.1	0.1
	MINIMUM	5.4	4.4	2.2	2.2	2.3	0.9	0.3	0.1	0.1	0.1	0.1	0.0
	60 NUMBER	14	13	13	12	12	12	11	16	13	10	11	13
	MAXIMUM	0.3	0.2	0.2	0.4	0.2	0.4	0.3	0.8	0.2	0.1	0.1	0.2
	AVERAGE	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	61 NUMBER	14	11	12	14	12	10	12	14	14	12	12	13
	MAXIMUM	0.1	0.1	0.1	0.3	0.6	0.2	0.2	0.1	10.2	26.4	42.2	12.5
	AVERAGE	0.1	0.0	0.0	0.1	0.3	0.1	0.1	0.1	3.7	14.5	11.6	7.3
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	5.3	1.2	2.7

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
IOWA	57 NUMBER					3	2	2	2	2	2	2	3
	MAXIMUM					8.6	70.5	14.3	2.8	37.4	11.5	2.7	1.5
	AVERAGE					4.8	36.3	8.1	2.5	19.7	7.8	2.3	1.2
	MINIMUM					1.6	2.1	1.8	2.1	2.0	4.1	1.8	0.8
	58 NUMBER	2	3	4	4	4	5	4	5	3	5	3	3
	MAXIMUM	1.1	2.0	2.9	9.8	10.0	3.9	2.6	4.1	6.5	15.9	13.7	6.3
	AVERAGE	1.1	1.4	1.8	7.3	6.7	3.1	2.0	3.3	4.7	7.7	8.0	4.7
	MINIMUM	1.0	1.1	1.1	4.7	4.0	1.9	1.2	2.7	3.5	0.9	3.7	2.4
	59 NUMBER	4	4	4	4	4	6	4	4	4	3	6	4
	MAXIMUM	10.0	8.3	13.3	15.0	16.9	7.3	3.4	0.5	0.7	0.3	0.3	0.2
	AVERAGE	8.2	6.3	8.1	10.7	8.0	5.0	1.9	0.3	0.3	0.2	0.1	0.1
	MINIMUM	7.4	4.6	6.1	4.4	4.6	1.6	0.6	0.2	0.1	0.2	0.0	0.0
	60 NUMBER	5	4	5	3	4	4	3	5	6	4	4	4
	MAXIMUM	0.2	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.1
	AVERAGE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
	61 NUMBER	5	6	6	6	4	5	5	7	8	6	7	6
	MAXIMUM	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	15.3	20.1	19.3	8.5
	AVERAGE	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	5.4	13.4	11.0	5.8
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	7.5	5.5	3.4
KANSAS	57 NUMBER					1	3	3	2	1	2	3	2
	MAXIMUM					4.0	5.0	324.0	10.6	1.1	40.5	0.9	2.2
	AVERAGE					4.0	2.8	114.6	7.0	1.1	23.1	0.7	1.8
	MINIMUM					4.0	1.6	7.9	3.3	1.1	5.7	0.5	1.4
	58 NUMBER	2	2	3	2	1	3	2	2	2	1	2	
	MAXIMUM	4.4	1.8	10.0	7.6	13.0	5.9	7.4	8.4	4.5	20.8	68.2	
	AVERAGE	3.3	1.5	5.1	4.9	13.0	4.6	5.1	7.9	3.3	20.8	41.4	
	MINIMUM	2.2	1.1	0.2	2.2	13.0	3.8	2.8	7.3	2.1	20.8	14.6	
	59 NUMBER	4	5	4	3	4	3	4	2	4	3	5	4
	MAXIMUM	6.5	9.5	12.6	16.3	10.6	5.1	1.3	0.1	0.6	0.2	0.2	0.2
	AVERAGE	5.1	6.2	9.3	11.1	5.4	3.4	0.8	0.1	0.3	0.1	0.1	0.2
	MINIMUM	3.6	3.7	5.5	5.8	0.9	1.8	0.3	0.1	0.2	0.0	0.1	0.1
	60 NUMBER	6	2	4	5	4	3	3	5	5	4	4	3
	MAXIMUM	0.2	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.1
	AVERAGE	0.1	0.2	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	61 NUMBER	4	6	4	4	2	4	4	5	4	5	3	2
	MAXIMUM	0.1	0.1	0.1	0.3	0.5	0.3	0.1	0.1	11.0	22.3	14.9	7.4
	AVERAGE	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	3.0	12.8	13.2	6.4
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	4.8	10.5	5.4
KENTUCKY	58 NUMBER	2	2	2	1	2	3	2	2	1	2	2	2
	MAXIMUM	1.4	0.9	3.0	5.5	3.5	4.1	2.8	2.9	1.1	5.2	7.2	6.4
	AVERAGE	1.2	0.6	2.7	5.5	3.1	3.5	2.5	2.5	1.1	3.8	5.5	6.2
	MINIMUM	1.0	0.2	2.3	5.5	2.6	3.0	2.2	2.1	1.1	2.4	3.7	5.9
	59 NUMBER	2	2	2	2	3	2	2	3	2	2	1	3
	MAXIMUM	11.8	12.8	6.3	6.0	12.0	3.9	1.3	0.4	0.2	0.1	0.1	0.2
	AVERAGE	8.9	10.2	5.4	3.7	6.3	2.1	0.9	0.2	0.2	0.1	0.1	0.1
	MINIMUM	6.0	7.6	4.4	1.3	0.9	0.3	0.4	0.1	0.2	0.1	0.1	0.1
	61 NUMBER	2	1	3	2	2	1	2	2	2	1	2	1
	MAXIMUM	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	8.3	37.4	14.8	2.5
	AVERAGE	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	4.2	37.4	11.1	2.5
	MINIMUM	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	37.4	7.4	2.5

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
LOUISIANA	57 NUMBER	1			1	3	5	4	4	4	5	4	4
	MAXIMUM	1.0			2.3	4.4	6.0	6.1	9.2	142.7	31.2	2.8	2.6
	AVERAGE	1.0			2.3	2.8	2.3	4.1	4.7	50.8	13.7	1.8	2.0
	MINIMUM	1.0			2.3	1.5	0.9	2.6	2.0	7.2	6.2	0.8	1.3
	58 NUMBER	3	1	2	2	2	3	2	2	1	3	2	2
	MAXIMUM	2.7	3.2	12.5	8.7	7.8	4.1	6.5	4.2	1.7	26.4	15.2	12.0
	AVERAGE	2.1	3.2	7.9	8.3	6.5	2.9	5.1	4.0	1.7	13.1	14.4	11.2
	MINIMUM	1.5	3.2	3.3	7.8	5.1	0.8	3.7	3.7	1.7	3.1	13.5	10.3
	59 NUMBER	6	6	8	5	7	6	7	6	6	6	7	6
	MAXIMUM	11.8	10.9	19.4	13.2	12.6	3.4	2.0	0.6	0.8	0.2	0.4	0.2
	AVERAGE	10.7	6.8	10.3	7.7	5.8	1.4	0.8	0.3	0.4	0.1	0.2	0.1
	MINIMUM	9.4	2.6	5.2	1.4	1.1	0.7	0.2	0.1	0.1	0.0	0.0	0.1
	60 NUMBER	4	5	5	4	4	4	4	5	5	4	4	4
	MAXIMUM	0.1	0.3	0.7	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.1
	61 NUMBER	4	4	6	3	3	4	4	5	5	3	4	5
	MAXIMUM	0.1	0.1	0.1	0.3	0.2	0.3	0.1	0.0	262.9	15.6	69.2	12.4
	AVERAGE	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.0	55.7	11.3	38.4	7.0
	MINIMUM	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.2	6.2	14.8	1.0
MAINE	58 NUMBER	3	3	2	3	6	2	6	4	4	4	3	3
	MAXIMUM	1.7	3.4	21.0	11.0	6.7	2.4	6.4	2.3	1.8	13.3	29.0	9.3
	AVERAGE	0.8	2.2	10.8	8.0	4.3	1.9	3.2	1.7	1.1	5.8	15.3	7.3
	MINIMUM	0.2	0.4	0.6	5.7	2.0	1.3	0.5	1.0	0.2	0.8	6.1	4.2
	59 NUMBER	3	4	5	4	5	2	6	4	4	4	3	3
	MAXIMUM	11.0	24.7	9.9	8.7	17.2	6.0	3.1	0.9	0.9	0.3	0.2	0.1
	AVERAGE	9.0	13.7	8.0	7.3	7.7	3.2	1.7	0.4	0.4	0.2	0.1	0.1
	MINIMUM	5.6	6.2	5.3	3.6	0.8	0.4	1.1	0.2	0.1	0.1	0.0	0.0
	60 NUMBER	3	5	4	5	4	4	4	5	4	4	4	3
	MAXIMUM	0.1	0.1	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1
	MINIMUM	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1
	61 NUMBER	4	6	2	5	4	4	5	4	5	3	4	5
	MAXIMUM	0.1	0.1	0.1	0.2	0.6	0.2	0.1	0.2	6.3	32.5	29.4	9.6
	AVERAGE	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	1.5	16.4	12.9	4.2
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	2.9	4.8	2.1
MARYLAND	57 NUMBER	2	2		2	1	3	2	3	2	2	2	2
	MAXIMUM	1.8	1.7		5.7	2.2	5.3	6.9	14.8	2.8	6.2	1.9	1.4
	AVERAGE	1.8	1.4		3.5	2.2	2.9	5.4	6.5	2.8	4.1	1.6	0.9
	MINIMUM	1.7	1.0		1.2	2.2	1.5	3.8	2.0	2.8	2.0	1.3	0.4
	58 NUMBER	2	2	3	1	3	2	2	2	2	3	2	1
	MAXIMUM	3.5	0.9	7.5	0.9	9.0	7.5	5.1	3.9	1.8	15.0	6.6	7.7
	AVERAGE	2.3	0.9	3.9	0.9	5.1	5.1	3.3	2.6	1.5	5.7	4.2	7.7
	MINIMUM	1.1	0.9	0.2	0.9	2.3	2.7	1.5	1.2	1.1	0.5	1.8	7.7
	59 NUMBER	4	4	4	5	4	4	5	4	4	4	5	4
	MAXIMUM	8.3	10.3	6.8	15.2	7.1	8.2	4.1	0.8	0.4	0.2	0.3	0.1
	AVERAGE	6.0	8.3	5.7	10.0	4.8	4.5	1.4	0.4	0.3	0.1	0.1	0.1
	MINIMUM	3.6	6.4	4.5	4.4	0.9	1.7	0.3	0.2	0.2	0.0	0.1	0.0
	60 NUMBER	5	4	5	4	3	4	3	4	4	5	4	4
	MAXIMUM	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1
	61 NUMBER	4	4	4	5	4	4	4	5	4	5	4	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.6	0.2	0.2	0.1	5.2	33.7	23.7	12.9
	AVERAGE	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	1.4	16.9	15.9	7.5
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	7.7	12.0	1.0

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
MASSACHUSETTS	57	NUMBER		2	2		10	12	11	9	12	9	9	11
		MAXIMUM		1.9	2.8		8.1	25.0	10.2	32.0	21.4	10.4	1.9	1.9
		AVERAGE		1.3	2.4		3.0	4.6	2.6	6.8	7.1	5.9	1.2	1.2
		MINIMUM		0.6	2.0		0.9	0.9	1.1	0.9	1.3	1.2	0.1	0.1
	58	NUMBER	11	11	14	12	9	15	14	12	15	10	11	13
		MAXIMUM	5.7	1.9	19.0	14.0	11.0	7.2	10.0	5.0	5.1	33.0	15.4	9.3
		AVERAGE	1.8	0.9	3.6	6.5	5.3	3.5	3.7	2.7	2.0	11.1	8.4	5.0
		MINIMUM	0.1	0.5	0.2	0.7	2.4	0.2	0.3	1.1	0.1	0.8	4.0	1.8
	59	NUMBER	16	16	21	17	22	17	18	21	12	21	16	20
		MAXIMUM	12.9	14.1	18.8	71.0	15.5	5.1	2.8	2.1	0.4	0.2	0.3	0.2
		AVERAGE	6.7	7.5	7.6	13.0	6.1	2.8	1.0	0.7	0.2	0.1	0.1	0.1
		MINIMUM	2.5	2.6	3.2	2.6	1.5	0.0	0.3	0.1	0.1	0.0	0.0	0.0
	60	NUMBER	24	20	28	20	22	22	21	28	25	22	23	20
		MAXIMUM	0.4	0.2	0.3	0.3	0.3	0.4	0.5	0.4	0.2	0.2	0.3	0.2
		AVERAGE	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	61	NUMBER	23	22	28	28	23	26	21	28	26	24	21	20
		MAXIMUM	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.2	53.0	24.6	17.9	12.7
		AVERAGE	0.0	0.0	0.1	0.1	0.2	0.2	0.0	0.0	6.8	8.1	6.6	4.5
		MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	1.0
MICHIGAN	57	NUMBER					6	9	9	10	7	8	9	6
		MAXIMUM					3.6	3.8	25.0	36.2	70.6	6.5	2.8	1.7
		AVERAGE					2.5	2.2	7.1	5.1	15.7	3.7	1.5	1.1
		MINIMUM					1.3	1.0	1.4	1.1	1.6	0.6	0.7	0.8
	58	NUMBER	8	10	7	7	9	6	8	8	7	11	8	8
		MAXIMUM	2.4	1.6	2.9	15.0	11.0	6.9	8.4	3.5	2.5	16.4	12.6	10.6
		AVERAGE	1.4	0.8	1.0	6.3	6.4	4.5	4.2	2.1	1.7	6.8	7.3	5.6
		MINIMUM	0.4	0.2	0.4	1.5	1.9	2.9	1.4	0.9	1.1	0.7	2.7	3.3
	59	NUMBER	7	8	11	8	9	8	9	9	7	10	7	8
		MAXIMUM	12.0	15.1	11.5	14.5	18.4	5.0	3.1	0.9	0.4	0.2	0.2	0.2
		AVERAGE	7.5	8.4	7.1	6.5	8.6	3.5	1.6	0.5	0.2	0.1	0.1	0.1
		MINIMUM	3.8	4.9	2.8	1.7	1.0	0.0	0.4	0.2	0.1	0.0	0.0	0.0
	60	NUMBER	7	8	10	10	7	9	8	9	11	7	8	8
		MAXIMUM	0.2	0.1	0.2	0.4	0.1	0.3	0.3	0.3	0.2	0.2	0.1	0.1
		AVERAGE	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
		MINIMUM	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
	61	NUMBER	6	7	5	8	4	6	6	8	6	7	6	5
		MAXIMUM	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	36.1	34.4	16.7	15.6
		AVERAGE	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	11.4	16.8	13.2	11.0
		MINIMUM	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	2.4	10.1	7.4
MINNESOTA	57	NUMBER	3	3	3	2	6	4	4	4	4	5	5	3
		MAXIMUM	1.1	1.7	3.0	1.3	12.7	2.2	46.8	25.8	15.2	11.8	2.0	1.1
		AVERAGE	0.9	1.2	2.0	1.2	5.5	1.6	13.1	13.1	6.7	7.7	1.0	0.9
		MINIMUM	0.5	1.0	1.4	1.0	1.3	1.0	1.5	2.4	2.4	2.3	0.2	0.6
	58	NUMBER	6	5	7	6	6	4	9	4	6	6	9	5
		MAXIMUM	1.9	1.5	18.0	10.0	16.0	4.5	4.4	3.1	5.3	12.4	20.3	9.3
		AVERAGE	1.1	1.0	5.5	8.0	6.7	3.4	2.6	2.4	1.8	3.8	7.7	5.5
		MINIMUM	0.5	0.6	1.0	3.2	2.7	0.9	0.4	1.6	0.2	0.7	1.6	2.9
	59	NUMBER	7	5	7	5	7	7	7	7	4	5	7	7
		MAXIMUM	10.6	11.5	11.5	11.2	7.2	5.6	3.6	0.5	0.6	0.2	0.2	0.1
		AVERAGE	6.8	7.3	5.6	8.5	3.7	2.7	2.0	0.2	0.4	0.1	0.1	0.1
		MINIMUM	4.5	4.2	3.5	3.4	0.3	0.6	1.1	0.1	0.2	0.0	0.1	0.0
	60	NUMBER	6	3	5	3	4	4	4	4	5	5	4	4
		MAXIMUM	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
		AVERAGE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
		MINIMUM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
	61	NUMBER	5	7	6	8	6	6	6	8	7	6	6	6
		MAXIMUM	0.1	0.0	0.1	0.2	0.3	0.2	0.1	0.1	15.9	31.7	19.0	7.6
		AVERAGE	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	5.4	12.8	11.6	6.8
		MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	2.2	2.2	5.9

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
MISSISSIPPI	57 NUMBER					2	1	3	3	1	3	2	1
	MAXIMUM					1.2	8.8	10.2	44.1	1.7	56.2	1.6	1.5
	AVERAGE					1.1	8.8	5.4	17.3	1.7	34.0	1.2	1.5
	MINIMUM					1.0	8.8	1.7	1.9	1.7	2.0	0.8	1.5
	58 NUMBER	4	4	4	5	5	3	3	4	3	6	2	4
	MAXIMUM	3.5	2.9	4.7	9.2	7.5	5.7	6.0	3.7	3.3	12.4	20.9	9.3
	AVERAGE	2.6	1.9	2.2	5.3	4.9	2.8	5.7	3.2	2.8	6.1	17.7	5.8
	MINIMUM	2.1	1.3	0.8	2.9	3.4	0.4	5.1	2.1	2.2	0.7	14.4	3.0
	59 NUMBER	3	2	5	4	3	5	5	3	5	5	4	4
	MAXIMUM	10.6	17.2	12.1	11.8	11.2	4.1	1.8	0.8	0.3	0.1	0.3	0.2
	AVERAGE	7.2	13.9	6.6	9.6	7.8	1.7	0.7	0.6	0.2	0.1	0.2	0.2
	MINIMUM	1.0	10.5	1.4	6.1	1.2	0.9	0.3	0.3	0.1	0.0	0.1	0.1
	60 NUMBER	4	4	5	3	5	4	3	4	3	4	4	4
	MAXIMUM	0.1	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.1
	AVERAGE	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
	61 NUMBER	4	2	5	3	3		4	6	3	3	4	3
	MAXIMUM	0.1	0.1	0.1	0.1	0.4		0.1	0.1	247.9	23.5	35.7	14.3
	AVERAGE	0.1	0.1	0.0	0.1	0.2		0.1	0.1	83.2	17.8	28.7	8.5
	MINIMUM	0.0	0.0	0.0	0.1	0.1		0.0	0.0	0.0	13.2	21.6	4.7
MISSOURI	57 NUMBER	2	2	2	3	6	4	4	5	4	4	5	3
	MAXIMUM	7.4	4.5	2.3	6.0	8.2	4.1	13.7	120.1	73.8	23.9	1.6	3.0
	AVERAGE	4.8	3.1	1.4	3.5	3.2	3.0	9.0	40.4	22.6	12.9	1.2	1.8
	MINIMUM	2.2	1.7	0.5	0.4	1.4	2.1	1.7	2.6	2.8	4.8	0.8	1.1
	58 NUMBER	6	4	6	5	7	5	8	5	6	4	7	7
	MAXIMUM	3.6	1.9	5.5	14.0	10.0	6.9	13.0	8.6	6.3	18.0	31.8	16.4
	AVERAGE	1.9	1.5	2.7	9.2	7.8	3.8	7.8	5.0	3.7	7.6	14.6	8.0
	MINIMUM	0.8	0.8	0.9	4.8	4.3	2.0	4.1	2.7	2.2	1.3	4.8	2.7
	59 NUMBER	5	8	4	6	7	8	4	7	4	6	4	7
	MAXIMUM	14.0	25.4	14.5	17.2	19.4	7.9	2.6	0.8	0.5	0.5	0.2	0.2
	AVERAGE	11.7	9.2	10.3	10.4	7.5	4.2	2.4	0.4	0.3	0.2	0.2	0.1
	MINIMUM	9.4	4.2	1.2	1.2	0.9	0.5	2.0	0.1	0.2	0.1	0.1	0.1
	60 NUMBER	5	4	5	4	4	4	4	4	6	4	4	4
	MAXIMUM	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.2	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.0
	61 NUMBER	7	5	7	6	6	5	7	6	7	5	6	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0.2	12.0	21.0	26.0	12.5
	AVERAGE	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	4.8	17.7	12.7	6.1
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	12.2	2.2	1.9
MONTANA	57 NUMBER					3	2	2	2	2	3	1	3
	MAXIMUM					8.9	3.3	24.1	3.7	8.2	3.0	0.8	2.7
	AVERAGE					5.8	2.0	13.7	2.5	5.4	1.7	0.8	1.9
	MINIMUM					2.8	0.7	3.3	1.2	2.6	0.8	0.8	1.2
	58 NUMBER	4	4	6	4	4	4	4	4	5	3	5	5
	MAXIMUM	2.0	2.6	16.0	29.0	9.4	5.8	6.1	7.5	5.5	6.0	508.0	16.2
	AVERAGE	1.5	1.6	6.7	11.8	4.9	2.6	3.4	4.9	2.9	4.1	109.5	9.4
	MINIMUM	1.3	0.9	1.2	3.2	2.1	0.6	1.5	3.8	0.9	3.1	3.3	3.5
	59 NUMBER	4	4	5	2	6	4	4	5	3	6	3	5
	MAXIMUM	9.0	8.7	13.0	9.9	9.6	4.4	2.2	1.4	0.6	0.2	0.2	0.2
	AVERAGE	7.1	7.3	6.9	9.6	5.0	3.5	2.1	0.7	0.4	0.1	0.1	0.1
	MINIMUM	5.3	5.3	2.6	9.3	1.4	1.8	1.9	0.2	0.2	0.0	0.1	0.1
	60 NUMBER	5	4	4	5	3	3	6	5	4	4	4	4
	MAXIMUM	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.0	0.0
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0
	61 NUMBER	4	4	5	4	5	4	3	6	2	5	4	4
	MAXIMUM	0.1	0.1	0.1	0.1	0.5	0.4	0.2	0.1	14.3	52.5	42.8	10.8
	AVERAGE	0.1	0.1	0.0	0.1	0.3	0.2	0.1	0.1	8.5	21.0	21.7	8.9
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	2.6	2.7	3.8	6.6

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NEBRASKA	57 NUMBER					4	4	4	4	4	5	4	5
	MAXIMUM					2.0	14.3	11.0	27.8	22.3	3.8	2.6	3.5
	AVERAGE					1.1	6.1	6.0	9.9	13.0	2.5	1.5	1.5
	MINIMUM					0.2	2.0	2.0	2.6	4.5	0.5	0.8	0.7
	58 NUMBER	4	4	5	4	2	5	4	4	4	5	2	5
	MAXIMUM	3.9	2.7	5.3	7.5	8.1	7.7	12.0	7.4	3.3	76.0	4.1	10.8
	AVERAGE	2.3	1.4	3.0	6.1	8.0	5.8	5.7	4.1	2.5	24.0	4.0	8.0
	MINIMUM	0.7	0.5	1.3	4.9	7.9	3.2	2.6	1.7	1.9	1.5	3.9	5.0
	59 NUMBER	4	4	4	2	5	4	4	5	4	3	3	4
	MAXIMUM	12.5	12.0	11.8	7.5	9.7	5.6	1.7	0.7	0.3	0.2	0.1	0.1
	AVERAGE	10.1	6.6	7.9	5.0	6.8	3.9	1.4	0.4	0.3	0.2	0.1	0.1
	MINIMUM	7.9	3.6	1.7	2.5	5.1	2.0	0.9	0.2	0.1	0.1	0.1	0.0
	60 NUMBER	6	6	8	6	8	6	7	7	6	7	4	6
	MAXIMUM	0.2	0.1	0.2	0.4	0.4	0.2	0.3	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1
	MINIMUM	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.0	0.1	0.1	0.0	0.0
	61 NUMBER	4	4	5	5	4	4	4	6	4	4	4	4
	MAXIMUM	0.1	0.1	0.2	0.1	0.5	0.2	0.1	0.1	9.9	30.8	41.8	13.6
	AVERAGE	0.0	0.1	0.1	0.1	0.3	0.2	0.1	0.1	3.5	19.9	22.3	9.3
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	9.0	12.5	1.9
NEVADA	57 NUMBER					1	3	2	2	3	2	2	2
	MAXIMUM					4.2	380.0	25.0	2.9	54.6	4.4	3.6	2.8
	AVERAGE					4.2	208.3	15.3	2.7	33.5	3.6	2.6	2.3
	MINIMUM					4.2	1.8	5.5	2.5	9.8	2.8	1.5	1.7
	58 NUMBER	2	2	3		1	2	2	2	1	3	2	2
	MAXIMUM	4.1	1.8	18.0		12.0	19.0	66.0	5.4	3.2	64.1	19.6	16.7
	AVERAGE	4.0	1.6	7.4		12.0	12.2	38.0	5.4	3.2	23.1	13.9	11.6
	MINIMUM	3.8	1.4	1.6		12.0	5.4	10.0	5.3	3.2	2.0	8.1	6.5
	59 NUMBER	2	2	2	1	2	2	3	1	2	1	2	1
	MAXIMUM	20.3	5.5	14.9	13.3	11.4	11.8	2.7	0.5	0.5	0.1	0.3	0.0
	AVERAGE	16.1	5.3	14.6	13.3	7.3	9.1	1.5	0.5	0.3	0.1	0.2	0.0
	MINIMUM	11.9	5.0	14.2	13.3	3.1	6.4	0.4	0.5	0.1	0.1	0.1	0.0
	60 NUMBER	2	3	5	4	4	4	4	3	5	5	3	4
	MAXIMUM	0.1	0.2	0.8	0.4	0.4	0.4	0.2	0.4	0.1	0.3	0.2	0.1
	AVERAGE	0.1	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.1
	MINIMUM	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1	0.1
	61 NUMBER	4	5	5	4	4	2	5	3	5	4	4	3
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.2	0.2	0.1	53.0	53.7	52.8	27.6
	AVERAGE	0.1	0.0	0.1	0.2	0.3	0.2	0.1	0.1	15.1	23.6	25.1	17.7
	MINIMUM	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.0	2.9	9.7	10.9
NEW HAMPSHIRE	58 NUMBER	2	2	1	1	2	1	1	2	3	2		3
	MAXIMUM	1.6	1.2	2.8	6.2	6.8	6.0	6.0	1.6	1.6	20.4		4.0
	AVERAGE	1.5	0.8	2.8	6.2	5.4	6.0	6.0	1.3	1.3	11.0		3.0
	MINIMUM	1.4	0.3	2.8	6.2	3.9	6.0	6.0	0.9	0.7	1.6		2.5
	59 NUMBER	3	4	3	4	4	4	3	4	5	4	4	3
	MAXIMUM	6.4	14.2	8.7	12.6	5.6	3.5	2.2	0.7	0.4	0.2	0.1	0.1
	AVERAGE	6.0	9.1	7.3	9.3	3.9	1.9	1.7	0.4	0.2	0.1	0.1	0.0
	MINIMUM	5.6	6.8	6.2	5.4	1.7	0.0	0.9	0.2	0.1	0.1	0.0	0.0
	60 NUMBER	3	5	4	5	4	3	3	3	3	6	3	3
	MAXIMUM	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
	61 NUMBER	4	4	4	4	4	3	2	4	5	3	4	3
	MAXIMUM	0.0	0.0	0.1	0.1	0.4	0.3	0.1	0.1	22.1	21.1	15.2	8.3
	AVERAGE	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	11.6	13.9	11.6	6.0
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	3.0	4.7	4.2

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONT LY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NEW JERSEY	57 NUMBER					7	5	7	7	5	4	6	6
	MAXIMUM					6.6	23.0	38.5	3.1	74.0	11.6	5.2	5.8
	AVERAGE					4.0	6.8	7.4	2.0	28.9	4.9	2.1	3.0
	MINIMUM					1.8	1.0	0.9	0.7	4.2	1.7	0.8	1.3
	58 NUMBER	3	5	7	6	7	6	7	7	5	4	6	7
	MAXIMUM	1.7	1.6	5.2	15.0	15.0	5.7	9.3	3.2	2.7	7.0	18.2	14.4
	AVERAGE	0.7	1.1	1.5	7.6	6.4	3.4	4.3	2.0	1.7	3.4	8.5	6.9
	MINIMUM	0.1	0.5	0.1	5.1	2.8	0.4	1.2	0.6	0.1	0.8	3.2	1.7
	59 NUMBER	4	6	2	5	5	4	4	4	4	5	4	3
	MAXIMUM	17.9	9.8	6.9	6.5	5.6	4.7	2.2	1.4	0.4	0.3	0.1	0.2
	AVERAGE	7.6	5.9	6.1	5.4	3.8	3.2	0.9	0.8	0.3	0.2	0.1	0.2
	MINIMUM	2.0	4.1	5.2	4.1	2.5	0.6	0.2	0.2	0.1	0.0	0.1	0.1
	60 NUMBER	8	7	8	9	7	7	6	9	10	8	7	8
	MAXIMUM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
	61 NUMBER	6	6	8	6	5	6	7	7	5	7	5	6
	MAXIMUM	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	21.4	24.5	28.1	11.9
	AVERAGE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	5.2	15.8	11.7	7.2
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	9.1	2.9	1.8
NEW MEXICO	57 NUMBER					2	2	2	1	2	2	2	2
	MAXIMUM					7.0	57.5	15.0	1.8	53.9	14.8	2.1	1.9
	AVERAGE					5.1	29.8	11.0	1.8	31.7	8.1	1.5	1.6
	MINIMUM					3.1	2.0	7.0	1.8	9.5	1.4	0.8	1.3
	58 NUMBER	2	1	3	2	2	2	2	2	2	3	2	1
	MAXIMUM	3.6	2.0	12.0	15.0	13.0	9.7	85.0	7.7	1.8	16.3	10.9	16.8
	AVERAGE	3.6	2.0	5.3	9.2	11.5	8.4	49.5	7.7	1.7	10.9	8.9	16.8
	MINIMUM	3.5	2.0	1.9	3.4	9.9	7.1	14.0	7.6	1.5	3.3	6.8	16.8
	59 NUMBER	2	3	5	3	5	5	4	3	2	5	4	4
	MAXIMUM	20.1	39.5	20.1	12.5	10.8	3.5	1.1	0.4	0.5	0.3	0.1	0.4
	AVERAGE	16.1	18.0	14.2	10.2	7.5	2.3	0.9	0.3	0.4	0.2	0.1	0.2
	MINIMUM	12.0	1.9	11.1	7.0	2.4	0.9	0.7	0.2	0.2	0.0	0.0	0.1
	60 NUMBER	4	4	4	3	4	4	2	4	5	5	4	4
	MAXIMUM	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.5	0.1	0.5	0.1	0.1
	AVERAGE	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.1	0.1
	MINIMUM	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.0
	61 NUMBER	5	3	5	5	3	4	3	4		3	4	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.4	0.1	0.2	0.1		41.0	16.2	25.0
	AVERAGE	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1		21.6	14.2	18.1
	MINIMUM	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1		6.2	12.0	11.5
NEW YORK	57 NUMBER					12	7	12	9	10	12	11	9
	MAXIMUM					7.3	3.0	26.8	5.2	11.5	9.1	2.5	2.9
	AVERAGE					3.3	2.0	5.4	2.4	4.4	5.2	1.1	1.3
	MINIMUM					0.7	0.6	0.4	0.9	1.5	0.3	0.5	0.6
	58 NUMBER	4	4	4	5	4	5	3	5	2	6	4	4
	MAXIMUM	3.9	1.9	1.9	15.0	8.7	5.2	7.3	3.3	1.7	20.6	16.0	7.7
	AVERAGE	2.1	1.5	1.4	6.9	5.6	3.4	4.7	2.6	1.4	6.2	11.2	4.9
	MINIMUM	0.1	0.8	0.8	1.7	1.3	2.0	3.2	1.1	1.0	0.6	6.1	2.9
	59 NUMBER	23	21	27	25	27	24	25	19	25	18	28	22
	MAXIMUM	16.4	29.0	18.5	19.7	23.6	18.3	4.4	1.9	0.7	0.3	0.3	0.2
	AVERAGE	8.1	10.3	8.1	9.2	7.1	5.7	1.6	0.7	0.3	0.1	0.1	0.1
	MINIMUM	2.4	4.2	1.2	2.2	0.3	0.2	0.3	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	29	23	28	27	24	25	24	32	27	24	27	25
	MAXIMUM	0.3	0.2	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.2
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	28	24	29	26	26	27	24	28	28	31	25	25
	MAXIMUM	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.1	45.4	81.0	50.8	15.3
	AVERAGE	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	4.3	20.9	12.9	6.4
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.5	0.6

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NORTH CAROLINA	57 NUMBER					4	5	4	5	3	4	4	5
	MAXIMUM					4.5	2.6	10.9	23.4	6.3	10.2	2.1	2.0
	AVERAGE					2.7	2.0	4.7	8.5	3.5	4.2	1.4	1.4
	MINIMUM					1.5	1.1	1.4	1.8	0.8	1.5	0.6	1.0
	58 NUMBER	8	8	9	10	7	9	7	5	5	11	6	10
	MAXIMUM	6.1	2.7	12.2	15.0	12.0	7.0	12.0	8.6	3.1	34.5	14.8	16.4
	AVERAGE	2.2	1.5	4.3	7.1	7.1	3.1	6.4	3.8	2.2	12.5	10.4	9.9
	MINIMUM	0.3	0.1	0.8	0.6	4.3	1.1	1.7	0.5	1.6	1.2	4.7	2.5
	59 NUMBER	6	6	6	6	7	4	8	6	6	7	4	7
	MAXIMUM	14.2	14.6	11.0	11.8	10.5	5.6	1.8	1.1	0.5	0.3	0.2	0.2
	AVERAGE	9.5	9.8	7.9	7.6	7.2	3.0	1.0	0.4	0.3	0.1	0.1	0.1
	MINIMUM	6.9	6.6	4.9	4.4	3.6	0.8	0.4	0.1	0.1	0.0	0.0	0.1
	60 NUMBER	11	8	7	10	7	7	8	10	8	10	7	8
	MAXIMUM	0.2	0.2	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.1
	AVERAGE	0.1	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0
	61 NUMBER	8	8	11	9	8	6	8	9	9	9	7	8
	MAXIMUM	0.1	0.2	0.1	0.3	0.4	0.1	0.2	0.1	31.0	31.8	39.0	28.1
	AVERAGE	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.0	6.2	16.7	16.8	10.2
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	9.0	7.5	4.6
NORTH DAKOTA	57 NUMBER					2	2	2	3	1	3	2	1
	MAXIMUM					4.1	3.6	33.1	6.1	6.1	8.1	1.5	1.3
	AVERAGE					4.1	2.8	26.7	3.9	6.1	5.1	1.1	1.3
	MINIMUM					4.1	1.9	20.3	1.7	6.1	1.6	0.7	1.3
	58 NUMBER	5	4	5	5	5	4	4	5	4	5	3	3
	MAXIMUM	3.0	1.1	2.7	22.0	6.9	6.1	4.1	3.7	2.2	16.6	4.1	3.6
	AVERAGE	1.9	0.9	1.6	11.1	5.5	4.6	2.7	2.5	0.9	9.4	2.3	1.9
	MINIMUM	0.8	0.7	0.7	5.7	3.6	1.8	0.6	0.7	0.2	1.5	0.5	0.8
	59 NUMBER	3	4	4	6	3	3	6	3	5	3	6	4
	MAXIMUM	5.7	4.9	5.6	8.6	11.0	7.1	3.5	0.7	0.8	0.2	0.1	0.1
	AVERAGE	3.1	3.6	3.9	5.4	6.8	4.0	1.7	0.6	0.3	0.1	0.1	0.1
	MINIMUM	1.3	2.1	1.3	2.0	1.4	2.2	0.4	0.3	0.2	0.1	0.0	0.0
	60 NUMBER	4	4	2	5	4	3	4	5	4	4	4	5
	MAXIMUM	0.1	0.1	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.0
	MINIMUM	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	4	2	3	6	4	4	5	4	4	6	4	3
	MAXIMUM	0.1	0.0	0.0	0.2	0.3	0.3	0.2	0.1	5.9	29.4	25.2	9.2
	AVERAGE	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.1	1.6	14.7	15.5	5.3
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	2.3	4.1	0.2
OHIO	57 NUMBER	2	2	2	2	16	13	14	13	13	15	16	13
	MAXIMUM	1.4	2.9	3.2	5.1	7.8	4.8	13.4	50.1	117.9	11.9	3.3	3.1
	AVERAGE	1.0	1.9	2.4	3.7	4.1	2.8	3.9	6.3	32.9	5.2	1.8	1.6
	MINIMUM	0.5	0.9	1.5	2.2	0.3	1.5	1.1	1.1	1.5	2.4	0.4	0.4
	58 NUMBER	14	14	15	12	14	15	14	13	16	16	13	14
	MAXIMUM	7.7	2.4	11.0	13.0	11.0	8.2	9.3	8.3	2.9	3.6	27.3	12.0
	AVERAGE	2.2	1.4	3.2	8.3	7.3	4.5	3.7	3.9	1.7	9.3	12.2	6.5
	MINIMUM	0.6	0.2	0.5	2.0	3.5	2.1	1.5	1.8	0.4	2.4	3.7	3.2
	59 NUMBER	15	20	18	19	22	16	20	19	17	20	21	18
	MAXIMUM	9.9	12.9	16.7	18.4	12.8	8.2	4.0	1.8	2.9	0.4	0.2	0.3
	AVERAGE	6.4	6.1	8.6	9.1	5.6	3.7	1.8	0.6	0.5	0.1	0.1	0.1
	MINIMUM	4.0	0.5	3.8	3.1	1.0	0.6	0.2	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	18	14	19	18	15	16	16	21	19	13	18	16
	MAXIMUM	0.2	0.2	0.2	0.4	0.2	0.4	0.3	0.3	0.2	0.2	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1
	61 NUMBER	17	14	19	18	15	17	17	20	19	15	16	16
	MAXIMUM	0.1	0.1	0.1	0.3	0.5	0.3	0.2	0.2	63.9	48.9	40.6	13.3
	AVERAGE	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	6.8	17.7	17.3	7.0
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	8.2	6.0	1.5

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
PUERTO RICO	57 NUMBER						2	2	2	2	3	2	1
	MAXIMUM						1.2	2.3	5.0	5.8	2.9	0.7	1.8
	AVERAGE						0.9	2.3	3.0	4.3	1.5	0.6	1.8
	MINIMUM						0.6	2.2	0.9	2.7	0.6	0.5	1.8
	59 NUMBER	4	4	4	5	3	6	3	4	3	5	4	5
	MAXIMUM	4.2	14.7	7.8	4.9	4.1	4.7	0.7	0.4	0.9	0.1	0.1	0.1
	AVERAGE	3.2	9.5	4.5	3.0	3.3	2.1	0.6	0.4	0.4	0.1	0.1	0.1
	MINIMUM	2.2	3.8	2.0	0.9	2.9	1.2	0.5	0.2	0.1	0.0	0.0	0.0
	60 NUMBER	2	4	4	5	4	4	4	4	4	5	3	4
	MAXIMUM	0.1	0.[illegible]	26.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.2	7.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
	MINIMUM	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	4	4	4	5	5	4	5	3	5	4	4	3
	MAXIMUM	0.0	0.1	0.1	0.1	0.4	0.1	0.2	0.1	3.7	4.3	16.4	2.5
	AVERAGE	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.0	1.2	2.7	8.4	2.0
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	2.1	1.6
RHODE ISLAND	57 NUMBER			1	1	1	3	2	3	1	2	1	3
	MAXIMUM			1.5	1.6	1.3	6.4	1.2	3.4	6.0	5.2	1.4	1.5
	AVERAGE			1.5	1.6	1.3	3.8	1.1	2.4	6.0	3.3	1.4	1.4
	MINIMUM			1.5	1.6	1.3	2.3	0.9	1.0	6.0	1.4	1.4	1.3
	58 NUMBER	3	2	1	2	3	2	2	2	3	2	2	2
	MAXIMUM	1.4	1.1	8.8	16.0	6.3	4.7	2.3	2.5	3.2	13.3	12.8	17.2
	AVERAGE	0.9	1.0	8.8	16.0	3.1	3.1	2.3	2.3	3.1	6.9	9.4	10.3
	MINIMUM	0.6	0.8	8.8	16.0	1.4	1.5	2.3	2.0	3.0	0.4	5.9	3.3
	59 NUMBER	4	5	4	4	3	5	5	3	5	4	5	4
	MAXIMUM	9.4	10.3	11.0	9.3	3.3	3.8	2.9	0.3	0.7	0.2	0.3	0.1
	AVERAGE	6.1	7.3	8.3	7.1	2.8	1.7	1.0	0.2	0.4	0.2	0.2	0.1
	MINIMUM	2.8	2.2	4.0	4.3	2.0	0.3	0.4	0.1	0.2	0.1	0.1	0.1
	60 NUMBER	4	4	6	4	4	4	4	5	5	4	4	4
	MAXIMUM	0.2	0.2	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0
	61 NUMBER	4	4	5	3	5	4	4	4	5	3	4	4
	MAXIMUM	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.2	5.0	21.0	29.7	13.8
	AVERAGE	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.1	1.7	18.0	16.0	6.6
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	13.6	6.2	4.0
SOUTH CAROLINA	57 NUMBER					5	5	4	5	4	4	5	3
	MAXIMUM					6.9	68.5	24.7	7.1	47.5	7.7	3.0	1.9
	AVERAGE					4.4	18.9	10.9	4.3	15.5	7.0	1.9	1.7
	MINIMUM					1.2	0.9	3.1	1.6	3.1	6.2	0.2	1.5
	58 NUMBER	3	1	2	1	3	2	2	3	1	2	2	2
	MAXIMUM	1.9	4.2	8.7	12.0	6.3	5.5	21.0	5.2	2.1	12.6	17.9	13.9
	AVERAGE	1.4	4.2	4.5	12.0	4.1	4.4	12.7	3.5	2.1	6.4	12.9	11.2
	MINIMUM	1.2	4.2	0.2	12.0	1.2	3.2	4.4	1.9	2.1	0.2	7.8	8.4
	59 NUMBER	4	3	4	4	2	6	3	4	4	6	3	4
	MAXIMUM	22.0	12.3	20.7	15.8	5.9	4.7	0.6	0.4	0.9	0.3	0.2	0.3
	AVERAGE	12.8	10.6	10.7	8.1	4.6	1.7	0.3	0.3	0.4	0.1	0.2	0.2
	MINIMUM	5.3	7.4	3.4	3.1	3.2	0.4	0.1	0.2	0.2	0.0	0.1	0.1
	60 NUMBER	6	5	7	8	6	6	6	6	4	8	6	6
	MAXIMUM	0.2	0.3	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.1
	61 NUMBER	5	5	7	8	6	6	6	5	8	5	6	5
	MAXIMUM	0.1	0.2	0.1	0.3	0.5	0.3	0.1	0.1	29.4	32.0	22.4	22.3
	AVERAGE	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	7.9	18.7	15.8	15.4
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	10.0	7.3	6.2

TABLE 2.17 – BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES – Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
OKLAHOMA	58 NUMBER	2	2	2	3	2	2	2	2	1	3	2	2
	MAXIMUM	2.3	1.8	2.6	3.4	6.5	4.1	13.0	4.9	1.9	12.9	17.0	10.5
	AVERAGE	1.7	1.8	1.6	2.9	6.1	3.7	8.9	4.0	1.9	6.6	11.8	8.0
	MINIMUM	1.1	1.7	0.5	2.6	5.6	3.2	4.8	3.1	1.9	1.1	6.6	5.4
	59 NUMBER	2		3	3	3	2	1	2	3	1		1
	MAXIMUM	11.4		15.3	13.1	1.7	3.9	1.0	0.8	0.5	0.2		0.1
	AVERAGE	11.1		9.7	10.6	1.6	3.6	1.0	0.5	0.4	0.2		0.1
	MINIMUM	10.7		5.6	6.1	1.5	3.2	1.0	0.1	0.3	0.2		0.1
	60 NUMBER	4	3	5	2	4	3	4	6	4	4	4	4
	MAXIMUM	0.3	0.2	0.3	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.1	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1	0.0	0.1
	61 NUMBER	6	6	6	6	5	6	6	6	8	6	6	5
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.4	0.2	0.1	243.7	29.5	38.2	15.3
	AVERAGE	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	33.9	19.4	24.6	10.4
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	14.4	11.7	2.9
OREGON	57 NUMBER	2		1	2	2	2	2	2	1	3	2	2
	MAXIMUM	3.2		2.7	1.5	1.8	0.8	1.1	1.1	0.9	3.8	1.5	1.9
	AVERAGE	2.2		2.7	1.2	1.4	0.7	0.8	0.8	0.9	2.9	1.2	1.3
	MINIMUM	1.2		2.7	0.9	1.0	0.6	0.5	0.4	0.9	1.4	0.8	0.6
	58 NUMBER	2	4	4	2	4	4	5	4	3	3	6	4
	MAXIMUM	2.6	1.9	17.0	8.3	12.0	2.5	1.8	1.9	1.6	1.7	5.5	4.1
	AVERAGE	2.3	0.9	6.2	4.9	4.9	1.4	1.1	1.1	0.9	0.8	2.3	3.3
	MINIMUM	2.0	0.4	1.1	1.4	1.1	0.4	0.3	0.5	0.4	0.3	0.1	2.3
	59 NUMBER	3	5	6	3	4	5	4	4	4	2	5	5
	MAXIMUM	6.0	10.0	7.1	14.8	4.7	3.9	1.2	0.4	0.3	0.2	0.4	0.1
	AVERAGE	4.7	6.8	3.5	11.0	2.6	1.7	0.5	0.2	0.2	0.2	0.2	0.1
	MINIMUM	3.3	2.0	0.8	3.4	1.2	0.7	0.1	0.1	0.1	0.1	0.0	0.0
	60 NUMBER	2	3	2	2	2	2	2	1	3	1	2	2
	MAXIMUM	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1
	MINIMUM	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
	61 NUMBER	4	5	8	6	6	5	5	9	5	6	5	6
	MAXIMUM	0.1	1.7	0.0	0.2	0.4	0.2	0.1	0.1	48.0	59.6	16.0	22.8
	AVERAGE	0.1	0.3	0.0	0.1	0.2	0.1	0.1	0.1	11.8	16.1	9.2	7.9
	MINIMUM	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	2.4	0.7	0.4
PENNSYLVANIA	57 NUMBER					7	7	5	4	6	7	6	4
	MAXIMUM					13.0	18.8	22.3	22.8	93.0	6.5	3.0	3.1
	AVERAGE					4.7	5.3	8.5	7.7	18.9	5.1	1.6	1.5
	MINIMUM					1.8	1.9	1.6	1.6	2.6	2.7	0.8	0.7
	58 NUMBER	11	11	13	13	11	13	13	14	8	15	13	11
	MAXIMUM	2.7	3.1	7.9	13.0	29.0	6.6	6.7	5.2	2.6	24.8	16.6	10.9
	AVERAGE	1.5	1.4	2.6	6.8	7.9	3.8	3.4	2.5	1.3	6.8	7.0	5.2
	MINIMUM	0.5	0.6	0.4	0.9	2.2	1.4	0.8	1.2	0.1	0.8	1.3	2.5
	59 NUMBER	15	14	16	14	17	13	15	14	17	12	11	10
	MAXIMUM	10.9	17.6	22.2	12.5	14.7	6.4	5.0	1.9	0.9	0.3	0.3	0.5
	AVERAGE	5.6	7.8	8.3	8.4	7.3	3.2	1.5	0.7	0.4	0.1	0.1	0.2
	MINIMUM	1.2	3.1	1.5	4.0	1.4	0.6	0.2	0.2	0.1	0.0	0.1	0.0
	60 NUMBER	13	14	12	13	10	12	13	17	9	13	11	12
	MAXIMUM	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.2
	AVERAGE	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0
	61 NUMBER	16	20	22	18	18	18	19	18	20	20	16	15
	MAXIMUM	0.1	0.1	0.1	0.2	0.7	0.3	0.2	0.2	46.5	43.5	30.9	13.5
	AVERAGE	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	6.0	15.8	13.2	6.7
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.6	1.0

TABLE 2.17—BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES—Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
SOUTH DAKOTA	57 NUMBER					2	2	2	2	2	3	2	2
	MAXIMUM					3.2	1.3	7.4	54.9	8.9	20.9	1.4	1.9
	AVERAGE					2.3	1.2	5.3	32.3	5.2	10.5	1.4	1.7
	MINIMUM					1.4	1.0	3.1	9.7	1.5	1.0	1.4	1.4
	58 NUMBER	2	2	2	1	3	2	2	2	2	2	3	2
	MAXIMUM	1.9	1.8	7.1	5.3	11.0	5.9	5.8	8.7	6.6	26.5	14.2	7.4
	AVERAGE	1.9	1.5	4.0	5.3	8.6	4.2	5.3	7.4	5.1	14.6	8.6	6.2
	MINIMUM	1.8	1.1	0.8	5.3	6.9	2.5	4.7	6.0	3.5	2.7	3.1	4.9
	59 NUMBER	2	2	3	1	3	1	3	2	2	2	3	2
	MAXIMUM	11.0	15.0	17.1	15.5	7.9	1.8	6.4	1.8	0.3	26.5	0.2	0.1
	AVERAGE	9.6	11.0	7.7	15.5	4.3	1.8	3.2	1.0	0.3	13.3	0.1	0.1
	MINIMUM	8.2	7.0	0.8	15.5	2.1	1.8	1.4	0.2	0.2	0.1	0.1	0.1
	60 NUMBER	2		2	2	2	2	2	3	1	2	2	2
	MAXIMUM	0.1		0.1	0.3	0.5	0.3	0.2	0.2	0.0	0.1	0.1	0.1
	AVERAGE	0.1		0.1	0.2	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.1
	MINIMUM	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1
	61 NUMBER	2	3	2	2	2	2	2	2	3	2	1	3
	MAXIMUM	0.0	0.1	0.1	0.1	0.5	0.2	0.1	0.1	12.3	28.0	27.7	10.0
	AVERAGE	0.0	0.0	0.1	0.1	0.3	0.2	0.1	0.1	6.0	21.5	27.7	6.5
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0	15.0	27.7	2.5
TENNESSEE	57 NUMBER			1		1	3	2	3	3	1	4	5
	MAXIMUM			0.9		4.4	271.7	8.8	3.2	23.0	5.7	2.1	1.4
	AVERAGE			0.9		4.4	91.3	5.9	2.3	11.9	5.7	1.4	1.1
	MINIMUM			0.9		4.4	0.8	2.9	1.3	5.2	5.7	0.7	0.8
	58 NUMBER	6	6	7	7	4	9	6	6	5	6	8	6
	MAXIMUM	2.9	1.6	8.5	11.0	7.2	5.5	15.0	4.9	3.9	24.1	30.8	13.1
	AVERAGE	1.5	1.3	3.8	6.6	5.6	3.1	8.9	3.3	2.6	8.9	16.7	8.7
	MINIMUM	0.4	1.1	0.9	2.3	3.7	1.3	4.1	1.1	1.7	1.3	7.7	5.9
	59 NUMBER	8	7	9	6	12	7	9	7	10	9	6	9
	MAXIMUM	18.2	15.0	11.6	14.2	10.1	4.6	2.1	2.5	1.0	0.2	0.3	0.1
	AVERAGE	9.4	8.7	7.1	9.5	4.8	3.1	1.1	0.7	0.4	0.1	0.1	0.1
	MINIMUM	1.8	3.3	1.9	4.9	1.0	0.7	0.4	0.1	0.1	0.0	0.0	0.0
	60 NUMBER	7	5	8	7	6	6	6	8	7	6	4	6
	MAXIMUM	0.1	0.4	0.5	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1
	61 NUMBER	7	9	10	8	8	8	8	9	9	7	9	7
	MAXIMUM	0.1	0.1	0.1	0.3	0.4	0.3	0.2	0.1	11.0	75.6	36.0	13.2
	AVERAGE	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	4.1	23.9	17.6	6.1
	MINIMUM	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	10.1	3.4	2.3
TEXAS	57 NUMBER	3	5	5	3	11	9	12	9	12	9	11	10
	MAXIMUM	1.5	2.4	5.7	3.0	6.4	99.9	27.7	67.2	193.1	29.8	3.8	3.2
	AVERAGE	1.3	1.1	3.1	1.6	2.3	16.7	11.4	16.5	77.6	11.2	1.4	1.9
	MINIMUM	1.1	0.4	1.0	0.3	0.6	0.8	1.5	1.9	1.3	1.4	0.1	0.8
	58 NUMBER	11	14	12	11	13	11	14	12	13	16	9	11
	MAXIMUM	3.4	4.5	7.6	13.0	6.6	7.1	8.4	5.9	5.0	33.5	27.2	13.7
	AVERAGE	2.2	2.0	3.1	6.5	4.7	3.2	4.2	4.2	1.4	11.8	13.7	8.8
	MINIMUM	0.9	0.8	0.9	1.7	1.6	0.5	1.8	2.2	0.3	1.3	2.3	3.9
	59 NUMBER	9	10	10	9	12	9	9	10	9	10	8	9
	MAXIMUM	18.4	11.2	19.3	19.2	17.5	6.4	1.2	0.8	1.0	0.3	0.3	0.2
	AVERAGE	10.1	8.2	11.6	8.7	8.8	2.4	0.7	0.5	0.3	0.2	0.2	0.2
	MINIMUM	4.5	4.0	5.5	3.1	1.1	0.7	0.1	0.2	0.0	0.1	0.1	0.1
	60 NUMBER	16	11	20	14	15	13	13	16	16	14	14	12
	MAXIMUM	0.4	0.2	0.8	0.4	0.7	0.5	0.2	0.1	0.2	0.2	0.1	0.1
	AVERAGE	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	61 NUMBER	20	22	21	28	21	22	24	21	24	25	19	21
	MAXIMUM	0.2	0.3	0.4	0.6	0.5	0.3	0.2	0.1	227.7	44.1	36.1	25.6
	AVERAGE	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	11.3	15.2	16.6	12.9
	MINIMUM	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	3.5	4.5	1.3

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
UTAH	57 NUMBER		1	1		3	2	2	3	1	1	1	1
	MAXIMUM		4.6	2.5		7.1	3.7	8.8	5435.0	8.4	5.3	1.9	2.4
	AVERAGE		4.6	2.5		5.9	2.7	8.8	1816.5	8.4	5.3	1.9	2.4
	MINIMUM		4.6	2.5		4.5	1.7	8.8	4.2	8.4	.3	1.9	2.4
	58 NUMBER	4	4	4	3	6	4	4	3	3	5	3	4
	MAXIMUM	4.1	1.9	8.7	8.4	24.0	7.7	57.0	6.2	5.1	51.0	26.9	17.9
	AVERAGE	2.3	1.7	5.0	5.9	13.3	6.3	27.8	5.7	4.1	17.9	15.9	12.2
	MINIMUM	0.6	1.4	3.4	3.3	6.6	5.5	7.0	4.8	3.3	2.1	9.3	8.7
	59 NUMBER	4	4	4	4	4	4	5	6	2	5	3	5
	MAXIMUM	17.0	10.5	11.7	16.8	9.9	8.8	5.3	0.7	0.5	0.4	0.2	0.4
	AVERAGE	14.6	7.1	8.8	11.8	8.8	6.5	1.7	0.4	0.5	0.3	0.1	0.2
	MINIMUM	12.4	3.5	4.9	9.4	7.6	3.6	0.7	0.2	0.4	0.2	0.0	0.1
	60 NUMBER	2	1	3	1	2	3	2	3	1	3	2	2
	MAXIMUM	0.3	0.0	0.6	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.1
	AVERAGE	0.2	0.0	0.5	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.2	0.1
	MINIMUM	0.1	0.0	0.3	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1
	61 NUMBER	1	1	3	1	1	2	2	2	2	2	3	2
	MAXIMUM	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	17.3	28.6	20.0	25.6
	AVERAGE	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	16.1	19.5	18.2	22.6
	MINIMUM	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	14.9	10.3	16.6	19.5
VERMONT	57 NUMBER					2	3	2	2	2	2	3	2
	MAXIMUM					7.1	2.7	1.5	1.1	2.4	18.8	1.5	1.1
	AVERAGE					4.0	2.2	1.1	1.1	2.2	11.4	1.2	0.8
	MINIMUM					0.9	1.6	0.7	1.0	1.9	4.0	1.0	0.5
	58 NUMBER	2	2	2	2	3	2	1	3	3	1	3	2
	MAXIMUM	1.1	2.2	0.8	14.0	2.3	6.7	2.4	2.1	1.4	1.0	5.5	4.5
	AVERAGE	1.1	1.6	0.7	11.5	2.2	6.2	2.4	1.7	1.0	1.0	3.8	4.4
	MINIMUM	1.0	1.0	0.5	8.9	2.1	5.7	2.4	1.3	0.4	1.0	1.2	4.3
	59 NUMBER	2	2	2	2	3	2	2	2	2	3	1	3
	MAXIMUM	21.0	7.9	2.6	7.4	4.6	3.9	2.4	0.5	0.3	0.2	0.1	0.2
	AVERAGE	15.4	7.0	1.9	4.9	3.5	2.5	1.6	0.3	0.3	0.1	0.1	0.1
	MINIMUM	9.8	6.1	1.2	2.3	1.6	1.1	0.7	0.1	0.2	0.0	0.1	0.1
	60 NUMBER	4	4	2	5	4	5	4	5	4	5	4	4
	MAXIMUM	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1
	AVERAGE	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1
	MINIMUM	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1
	61 NUMBER	4	4	4	4	4	3	4	5	5	4	4	4
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.3	0.1	0.1	6.1	19.6	6.7	6.8
	AVERAGE	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.1	1.5	13.8	4.1	4.1
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	9.2	2.1	2.3
VIRGINIA	57 NUMBER					4	4	5	3	4	4	4	5
	MAXIMUM					9.4	24.3	15.5	4.5	5.9	9.0	2.2	2.9
	AVERAGE					4.3	10.2	6.4	2.3	4.7	3.8	1.5	1.9
	MINIMUM					1.9	0.6	2.0	0.7	3.3	1.5	0.3	1.0
	58 NUMBER	6	5	6	6	7	7	6	6	6	7	7	6
	MAXIMUM	3.4	2.0	4.2	11.0	9.5	7.0	13.0	6.7	4.0	17.4	17.0	11.2
	AVERAGE	2.2	1.5	1.3	7.0	6.7	5.1	6.8	3.4	2.3	5.6	9.4	9.3
	MINIMUM	0.2	0.9	0.3	1.9	3.5	3.5	2.6	1.1	0.9	0.9	3.1	5.7
	59 NUMBER	9	6	10	8	11	7	9	10	6	8	9	8
	MAXIMUM	15.8	13.8	17.8	16.3	13.2	6.0	1.2	1.3	0.4	0.3	0.6	0.2
	AVERAGE	9.4	9.9	10.0	8.7	8.6	3.3	0.5	0.6	0.3	0.2	0.2	0.1
	MINIMUM	6.2	5.3	6.4	3.9	4.4	0.6	0.2	0.3	0.2	0.1	0.0	0.0
	60 NUMBER	9	9	9	9	8	8	8	9	9	8	9	8
	MAXIMUM	0.2	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1
	AVERAGE	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1
	61 NUMBER	13	12	15	12	12	12	11	14	11	14	11	12
	MAXIMUM	0.1	0.1	0.2	0.2	0.3	0.2	0.4	0.1	75.0	60.3	63.4	25.3
	AVERAGE	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	11.2	17.1	20.5	9.6
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.2	5.0	0.7

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
WASHINGTON	57 NUMBER	3	1	1	2	3	2	2	2	3	2	1	2
	MAXIMUM	2.1	1.6	0.4	1.0	3.0	1.6	0.8	0.7	7.9	2.7	0.8	1.2
	AVERAGE	1.3	1.6	0.4	0.7	1.9	1.0	0.6	0.6	3.1	2.3	0.8	0.9
	MINIMUM	0.2	1.6	0.4	0.3	0.9	0.4	0.3	0.4	0.2	1.9	0.8	0.6
	58 NUMBER	2	2	2	2	2	2	2	2	3	2	2	1
	MAXIMUM	1.2	0.8	16.0	18.0	9.0	8.0	1.6	1.2	2.4	12.5	11.4	3.1
	AVERAGE	1.0	0.8	13.2	13.4	6.2	4.8	1.4	0.9	1.8	7.0	9.8	3.1
	MINIMUM	0.7	0.7	10.4	8.8	3.4	1.6	1.2	0.5	1.0	1.4	8.1	3.1
	60 NUMBER		2	1	3	2	2	2	3	2	1	3	2
	MAXIMUM		0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1
	AVERAGE		0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
	MINIMUM		0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
	61 NUMBER	4	7	6	6	6	6	5	7	8	5	5	6
	MAXIMUM	0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.1	10.5	23.2	18.9	13.1
	AVERAGE	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.0	2.4	12.4	9.7	5.0
	MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.5	1.3
WEST VIRGINIA	57 NUMBER					3	3	3	4	3	5	5	4
	MAXIMUM					5.5	3.8	2.8	2.3	82.6	9.6	2.3	2.4
	AVERAGE					3.9	3.4	2.2	1.8	39.5	5.0	1.3	1.8
	MINIMUM					0.9	3.2	1.6	1.3	3.6	2.0	0.7	1.4
	58 NUMBER	5	3	3	3	5	3	4	5	3	4	3	5
	MAXIMUM	2.5	3.1	2.0	11.7	5.7	5.3	6.8	2.7	3.2	15.6	16.3	9.2
	AVERAGE	1.6	2.1	1.6	7.0	3.8	4.6	5.0	2.4	2.1	8.1	10.6	6.9
	MINIMUM	0.5	1.3	1.0	1.1	1.8	4.2	2.7	1.9	1.0	3.7	6.4	5.1
	59 NUMBER	6	6	6	6	5	7	5	4	6	5	6	4
	MAXIMUM	20.3	11.7	9.2	12.3	12.3	6.4	1.9	0.9	0.5	0.4	0.2	0.1
	AVERAGE	11.8	6.8	7.2	7.8	4.2	2.7	1.0	0.5	0.3	0.2	0.1	0.1
	MINIMUM	7.9	2.6	6.1	3.4	0.2	0.6	0.2	0.2	0.1	0.0	0.0	0.0
	60 NUMBER	4	5	4	3	4	4	4	5	4	4	5	3
	MAXIMUM	0.2	0.2	0.2	0.5	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.1
	AVERAGE	0.1	0.2	0.2	0.4	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1
	61 NUMBER	3	1	3	1	3	2	2	2	3	2	3	2
	MAXIMUM	0.1	0.1	0.3	0.1	0.3	0.2	0.1	0.1	3.9	13.8	16.5	8.9
	AVERAGE	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	1.3	11.1	13.2	8.6
	MINIMUM	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	8.4	10.0	8.2
WISCONSIN	57 NUMBER				2	4	3	4	4	3	4	4	4
	MAXIMUM				12.5	3.7	2.1	12.9	49.3	21.5	23.1	1.1	2.7
	AVERAGE				8.5	2.6	1.6	6.5	13.7	9.3	7.6	0.9	1.3
	MINIMUM				4.5	1.7	1.0	1.2	1.2	2.5	1.8	0.3	0.5
	58 NUMBER	3	5	2	4	5	4	4	5	3	4	4	3
	MAXIMUM	1.6	1.3	2.9	11.0	9.4	9.2	4.5	9.4	2.0	13.7	6.9	6.2
	AVERAGE	1.1	0.8	1.8	7.2	4.3	5.5	2.7	3.9	1.7	7.4	5.4	5.1
	MINIMUM	0.6	0.5	0.6	1.8	1.8	2.7	1.8	1.1	1.4	1.4	4.2	3.5
	59 NUMBER	4	4	5	3	4	4	5	4	4	5	5	4
	MAXIMUM	10.0	8.5	11.6	10.0	8.9	6.5	2.0	1.1	0.7	0.1	0.1	0.1
	AVERAGE	7.6	6.2	6.5	7.2	7.2	3.0	1.5	0.4	0.4	0.1	0.1	0.1
	MINIMUM	6.0	5.1	3.9	5.0	4.3	0.9	0.2	0.1	0.2	0.0	0.0	0.1
	60 NUMBER	5	6	6	7	6	6	4	8	7	4	6	6
	MAXIMUM	0.2	0.2	0.2	0.4	0.2	0.3	0.1	0.3	0.1	0.1	0.1	0.1
	AVERAGE	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
	MINIMUM	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0
	61 NUMBER	4	4	5	3	3	4	5	4	4	5	4	4
	MAXIMUM	0.1	0.0	0.1	0.1	0.3	0.2	0.3	0.1	38.8	28.8	43.1	8.1
	AVERAGE	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.1	12.2	14.4	26.8	7.4
	MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	2.0	8.6	6.7

TABLE 2.17 — BETA RADIOACTIVITY: URBAN AND NONURBAN, MONTHLY STATE SUMMARIES — Continued

(Picocuries Per Cubic Meter)

Region or State	Years	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
WYOMING	57 NUMBER	1	1	1	2	1	3	2	2	2	2	2	3
	MAXIMUM	4.9	2.2	1.2	3.7	0.2	7.5	156.0	24.2	36.1	233.7	2.1	4.9
	AVERAGE	4.9	2.2	1.2	2.3	0.2	4.9	131.2	14.5	22.2	127.4	1.2	3.6
	MINIMUM	4.9	2.2	1.2	0.8	0.2	1.4	106.3	4.7	8.2	21.0	0.2	2.5
	58 NUMBER	2	2	2	2	3	1	2	2	1	3	2	2
	MAXIMUM	4.9	2.2	4.8	21.0	16.0	5.3	21.0	7.0	3.1	21.3	15.3	13.8
	AVERAGE	4.2	2.0	3.0	15.0	11.7	5.3	12.3	6.1	3.1	9.8	9.9	10.6
	MINIMUM	3.5	1.7	1.1	8.9	9.2	5.3	3.6	5.2	3.1	3.9	4.5	7.4
	59 NUMBER	2	2	2	2	2	3	2	2	2	2	2	3
	MAXIMUM	23.4	21.1	12.3	8.6	5.4	8.1	2.7	0.6	0.3	0.3	0.3	0.2
	AVERAGE	15.5	12.7	12.3	4.6	4.3	5.2	2.1	0.5	0.3	0.3	0.2	0.1
	MINIMUM	7.6	4.3	12.2	0.6	3.2	1.9	1.4	0.4	0.2	0.2	0.1	0.1
	60 NUMBER	4	4	2	3	3	4	2	4	5	4	4	5
	MAXIMUM	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.4	0.1	0.1
	AVERAGE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1
	MINIMUM	0.1	0.0	0.1	0.0	0.2	0.1	0.2	0.1	0.0	0.0	0.1	0.0
	61 NUMBER	5	3	6	4	4	4	4	5	5	4	2	5
	MAXIMUM	0.1	0.1	0.1	0.2	0.5	0.2	0.2	0.1	46.2	24.8	27.0	40.6
	AVERAGE	0.0	0.0	0.0	0.2	0.3	0.2	0.1	0.1	15.2	13.2	17.7	19.0
	MINIMUM	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	4.0	8.4	7.3

TABLE 2.18 — NITRATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	2195	.1	.7	1.0	1.3	1.5	1.8	2.2	2.6	3.2	4.3	24.8	2.4	1.7	1.99
NEW ENGLAND	58 59	236	.1	.6	1.0	1.3	1.6	2.0	2.5	3.0	4.1	5.7	20.7	2.9	1.9	2.33
MID ATLANTIC	58 60	207	.1	.9	1.2	1.4	1.8	2.2	2.6	3.0	3.6	4.3	7.8	2.5	2.0	1.87
MID EAST	57 60	268	.3	.8	1.1	1.3	1.5	1.7	2.0	2.4	2.8	3.4	11.2	2.0	1.7	1.74
SOUTH EAST	57 59	217	.3	1.0	1.3	1.5	1.7	1.9	2.1	2.5	3.1	3.7	14.0	2.2	1.9	1.64
MID WEST	57 60	361	.3	1.0	1.4	1.6	1.9	2.3	2.7	3.1	3.7	4.5	9.2	2.6	2.2	1.79
GREAT PLAINS	57 59	291	.2	.6	.8	1.1	1.3	1.5	1.8	2.1	2.5	3.5	8.7	1.8	1.4	1.94
GULF SOUTH	58 59	167	.2	.9	1.1	1.4	1.6	1.8	2.0	2.3	2.7	3.4	6.3	2.0	1.7	1.66
ROCKY MOUNTAIN	57 58	148	.1	.4	.6	.8	1.0	1.1	1.3	1.5	1.9	2.7	7.8	1.4	1.0	2.00
PACIFIC COAST	57 59	300	.1	.5	.8	1.2	1.6	2.0	2.5	3.4	5.1	6.7	24.8	3.4	2.0	2.93
ALABAMA																
BIRMINGHAM	58	20	1.3	1.8	1.9	2.1	2.5	2.8	3.0	3.6	3.9	4.5	7.6	3.0	2.8	1.50
ALASKA																
ANCHORAGE	58	26	.1	.2	.3	.4	.4	.6	.7	.7	.8	.9	2.8	.6	.5	1.99
ARIZONA																
PHOENIX	58	23	.7	1.2	1.7	1.8	1.8	2.0	2.1	2.2	2.5	3.5	3.6	2.1	1.9	1.30
	59	20	.8	.8	1.0	1.2	1.3	1.7	2.0	2.1	3.2	3.9	4.3	2.0	1.8	1.86
	58 59	43	.7	.9	1.3	1.5	1.7	1.9	2.1	2.2	2.7	3.5	4.3	2.0	1.9	1.56
ARKANSAS																
LITTLE ROCK	58	26	.6	.8	.9	1.2	1.4	1.8	2.1	2.2	2.4	2.6	3.3	1.7	1.6	1.58
CALIFORNIA																
LOS ANGELES	57	21	1.3	1.9	2.5	4.1	6.1	8.8	9.1	9.4	9.7	12.4	24.8	[illegible]	6.2	2.08
	58	21	1.5	2.8	5.2	6.2	6.7	9.3	10.4	11.5	12.4	14.0	21.5	[illegible]	7.8	1.80
	59	20	1.2	1.3	2.8	3.6	4.9	5.9	7.0	7.6	11.0	14.0	16.4	6.7	5.2	2.35
	57 59	62	1.2	2.2	3.2	5.4	6.7	8.0	8.9	9.7	11.4	13.5	24.8	8.1	6.5	2.05
SAN DIEGO	58	23	.4	1.6	2.7	2.8	2.9	4.1	4.4	4.7	5.2	7.5	8.3	4.1	3.5	1.90
SAN FRANCISCO	58	25	.2	.6	.8	1.2	1.5	1.8	2.2	3.2	4.0	6.0	7.9	2.6	1.8	2.60
COLORADO																
DENVER	58	25	.4	.8	1.1	1.3	1.7	1.9	2.2	2.5	2.7	5.5	7.8	2.3	1.9	1.95
CONNECTICUT																
HARTFORD	58	25	.5	.8	1.1	1.2	1.3	1.4	1.6	2.2	3.2	4.0	5.2	2.0	1.7	1.82
NEW HAVEN	58	25	.7	.9	1.0	1.1	1.2	1.4	1.7	1.9	2.7	2.9	5.6	1.8	1.5	1.63
DELAWARE																
WILMINGTON	58	23	.6	1.1	1.4	1.8	2.2	3.3	3.6	3.9	4.6	6.3	7.3	3.3	2.7	1.99
	59	20	.6	.7	1.0	1.1	1.4	1.5	1.7	2.0	2.2	2.8	4.6	1.7	1.4	1.67
	58 59	43	.6	.8	1.1	1.3	1.6	1.9	2.5	3.2	3.8	5.0	7.3	2.6	2.1	1.94
DIST OF COL																
WASHINGTON	58	24	1.5	2.1	2.4	2.5	2.6	3.0	3.2	3.4	3.7	4.5	5.4	3.1	2.9	1.33
FLORIDA																
TAMPA	58	26	1.0	1.0	1.1	1.3	1.4	1.6	1.9	2.0	2.2	2.5	4.4	1.8	1.7	1.41

TABLE 2.18 — NITRATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GEORGIA																
ATLANTA	58	21	.4	.6	1.3	1.7	1.8	1.9	2.0	2.4	3.0	3.5	4.4	2.1	1.8	1.76
HAWAII																
HONOLULU	57	25	.3	.2	.3	.4	.5	.5	.5	.6	.8	1.4	3.2	.7	.5	1.81
IDAHO																
BOISE	58	25	.1	.7	.9	1.1	1.1	1.2	1.3	1.5	1.6	2.5	6.5	1.5	1.2	2.00
ILLINOIS																
CHICAGO	58	21	.6	1.0	1.3	1.6	2.1	2.3	2.5	3.0	4.0	5.5	8.4	2.9	2.3	1.94
INDIANA																
EAST CHICAGO	58	20	1.2	1.2	1.4	1.7	2.1	2.5	3.0	3.2	3.5	4.2	7.9	2.8	2.4	1.64
HAMMOND	59	21	.3	.4	.6	1.2	1.3	1.5	1.8	1.9	2.1	3.5	4.8	1.7	1.4	2.08
INDIANAPOLIS	57	24	1.2	1.2	1.4	1.5	1.9	2.2	2.5	2.8	3.2	3.9	5.5	2.4	2.1	1.61
	58	24	.8	1.0	1.6	1.8	2.3	2.5	2.7	3.2	3.5	4.1	5.5	2.6	2.3	1.67
	57 58	48	.8	1.3	1.5	1.7	2.0	2.3	2.7	2.9	3.5	3.9	5.5	2.5	2.3	1.57
IOWA																
DES MOINES	57	26	.3	.6	.9	1.1	1.3	1.4	2.1	2.3	2.5	2.8	5.2	1.8	1.4	1.84
	58	26	.4	.7	1.0	1.5	1.6	1.8	1.9	2.2	2.5	3.2	4.9	1.9	1.6	1.72
	57 58	52	.3	.7	.9	1.2	1.5	1.8	2.0	2.2	2.5	3.2	5.2	1.9	1.6	1.83
KANSAS																
WICHITA	57	25	.7	.8	.9	1.3	1.4	1.5	1.9	2.0	2.1	2.3	2.5	1.6	1.4	1.54
	58	22	.7	.8	1.2	1.5	1.6	1.9	2.0	2.1	2.5	3.2	3.8	1.9	1.7	1.61
	57 58	47	.7	.8	1.1	1.3	1.5	1.6	1.9	2.1	2.3	2.5	3.8	1.7	1.6	1.53
LOUISIANA																
NEW ORLEANS	58	25	.7	.8	1.4	1.7	1.8	2.1	2.4	2.7	2.8	3.5	4.5	2.2	1.9	1.62
MAINE																
PORTLAND	58	23	.4	.4	.7	.8	.9	1.2	1.4	1.8	2.1	2.9	5.5	1.5	1.2	1.95
MARYLAND																
BALTIMORE	57	24	.9	1.3	1.6	1.7	1.8	2.0	2.2	2.8	3.1	3.6	4.2	2.2	2.1	1.48
	58	25	1.0	1.1	1.2	1.6	1.8	2.1	2.5	2.7	2.8	3.6	4.9	2.2	2.0	1.60
	59	25	.3	.4	.6	.7	.9	1.1	1.3	1.6	2.2	2.8	4.2	1.3	1.0	2.12
	60	25	.6	.9	1.0	1.5	1.6	1.7	1.8	2.5	2.9	3.9	5.1	2.0	1.7	1.75
	57 60	99	.3	.8	1.0	1.3	1.5	1.7	2.0	2.4	2.7	3.4	5.1	1.9	1.7	1.76
MASSACHUSETTS																
BOSTON	58	24	.2	.4	.8	1.3	1.5	1.7	1.9	2.2	2.4	4.0	6.2	2.0	1.5	2.22
BROCKTON	59	22	.8	1.2	2.1	2.9	3.2	3.7	4.2	5.0	8.0	9.0	11.7	4.5	3.7	1.99
QUINCY	59	22	1.5	1.8	2.4	3.5	4.5	4.7	5.0	5.5	8.5	14.0	20.7	6.2	4.8	2.01
SPRINGFIELD	59	23	1.5	1.6	2.3	2.7	3.7	4.7	5.0	7.5	9.0	14.0	17.4	6.3	4.8	2.11
MICHIGAN																
DETROIT	58	25	1.2	1.6	1.7	2.2	2.3	2.8	2.9	3.5	3.8	4.5	6.9	2.9	2.7	1.54
MINNESOTA																
MINNEAPOLIS	58	26	.4	.6	.7	1.0	1.1	1.5	1.6	1.7	1.9	3.2	8.3	1.7	1.3	1.84
	59	25	.4	.5	.6	.7	.9	1.1	1.5	2.1	2.4	3.6	4.4	1.5	1.2	2.23
	58 59	51	.4	.5	.7	.8	1.0	1.3	1.7	1.9	2.2	3.2	8.3	1.6	1.3	1.97
MISSISSIPPI																
JACKSON	58	24	.7	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.1	3.5	4.1	1.9	1.7	1.51
MISSOURI																
KANSAS CITY	58	22	1.0	1.3	1.5	1.9	2.4	2.9	3.2	3.7	4.5	5.5	8.7	3.3	2.8	1.79
ST LOUIS	58	24	.5	.9	1.1	1.6	2.1	2.4	2.7	3.2	3.5	4.2	4.8	2.4	2.1	1.80

TABLE 2.18 — NITRATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MONTANA																
HELENA	58	25	.2	.2	.3	.4	.5	.5	.6	.7	.9	1.4	3.8	.7	.5	1.98
NEBRASKA																
OMAHA	58	22	.4	.6	1.2	1.4	1.5	1.6	2.1	2.5	3.5	4.2	4.9	2.2	1.8	1.91
NEVADA																
LAS VEGAS	58	22	.4	.5	.7	1.0	1.4	1.5	1.7	1.8	2.5	3.2	3.9	1.7	1.4	1.82
NEW HAMPSHIRE																
MANCHESTER	58	20	.1	.3	.4	.5	.6	.7	.8	1.0	1.5	2.1	2.5	.9	.7	2.12
NEW JERSEY																
NEWARK	58	22	.5	.8	1.0	1.2	1.8	2.0	2.4	3.1	3.5	4.3	5.0	2.4	2.0	1.88
NEW MEXICO																
ALBUQUERQUE	58	24	.4	.6	.9	1.0	1.1	1.2	1.2	1.4	1.5	1.8	2.9	1.3	1.2	1.51
NEW YORK																
NEW YORK CITY	58	25	.4	.7	.9	1.2	1.3	1.6	1.7	3.0	3.5	4.5	7.4	2.2	1.7	2.08
NORTH CAROLINA																
CHARLOTTE	57	25	.5	.7	.8	1.1	1.1	1.4	1.5	1.8	2.0	2.2	3.7	1.4	1.3	1.60
	58	25	.5	1.0	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.5	3.0	1.6	1.5	1.44
	57 58	50	.5	.7	1.0	1.1	1.2	1.3	1.5	1.6	2.0	2.4	3.7	1.5	1.4	1.49
NORTH DAKOTA																
BISMARCK	57	23	.5	.5	.8	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.7	1.0	1.0	1.40
	58	26	.2	.3	.4	.6	.7	.8	.9	1.1	1.2	1.4	1.9	.9	.7	1.82
	57 58	49	.2	.4	.6	.7	.8	1.0	1.1	1.2	1.3	1.4	1.9	.9	.9	1.61
OHIO																
CINCINNATI	58	22	.7	1.2	1.9	2.1	2.4	2.6	2.8	3.0	3.4	4.0	5.1	2.6	2.4	1.53
CLEVELAND	57	26	.5	.6	.8	1.2	1.3	1.9	3.6	4.2	4.4	4.6	5.0	2.5	1.9	2.48
	58	25	.5	1.4	1.9	2.3	2.4	2.9	3.2	3.9	4.4	5.2	9.2	3.2	2.8	1.65
	57 58	51	.5	.7	1.2	1.5	2.0	2.6	3.3	4.0	4.3	4.7	9.2	2.8	2.3	2.07
COLUMBUS	58	26	.9	1.4	1.8	2.3	2.8	3.2	4.1	4.2	4.5	6.0	7.0	3.4	3.0	1.69
DAYTON	60	26	.6	1.1	1.4	1.6	1.8	2.1	2.4	3.5	4.2	4.5	6.1	2.6	2.2	1.76
YOUNGSTOWN	57	25	.6	1.1	1.3	1.6	1.7	2.0	2.1	2.5	2.8	3.2	3.6	2.0	1.9	1.52
	58	25	.8	1.4	1.6	2.0	2.2	2.6	2.8	3.2	3.9	4.6	5.0	2.7	2.5	1.60
	57 58	50	.6	1.1	1.4	1.6	1.9	2.2	2.6	2.9	3.2	3.8	5.0	2.4	2.1	1.58
OREGON																
PORTLAND	58	25	.7	.9	1.3	1.7	1.8	2.3	2.7	3.5	5.5	10.0	21.8	3.9	2.6	2.38
PENNSYLVANIA																
PHILADELPHIA	58	23	.8	1.1	1.7	2.0	2.2	2.8	3.0	3.2	3.5	4.1	6.7	2.7	2.4	1.61
	59	20	.1	.3	.6	.9	1.4	1.5	1.7	2.2	2.4	3.2	6.8	1.9	1.2	2.37
	58 59	43	.1	.6	1.2	1.5	1.7	2.1	2.5	3.0	3.3	4.0	6.8	2.3	1.8	2.29
PITTSBURGH	58	26	.7	1.3	1.4	1.7	2.6	2.7	3.0	3.1	3.5	3.8	5.8	2.6	2.4	1.57
	59	24	.5	.6	1.3	1.6	1.9	2.5	2.8	3.4	3.9	5.2	7.8	2.7	2.1	2.15
	60	24	1.0	1.4	1.7	2.1	2.3	2.4	2.5	2.7	3.0	4.1	5.8	2.6	2.3	1.44
	58 60	74	.5	1.2	1.5	1.7	2.2	2.5	2.7	3.1	3.5	4.0	7.8	2.6	2.3	1.69
RHODE ISLAND																
PROVIDENCE	58	26	.9	1.2	1.5	1.8	1.9	2.5	2.8	2.9	3.2	3.5	5.4	2.5	2.3	1.55
SOUTH CAROLINA																
COLUMBIA	58	24	.3	.5	.8	1.4	1.7	1.8	1.9	2.0	2.4	3.0	3.9	1.8	1.5	1.88
SOUTH DAKOTA																
SIOUX FALLS	58	24	.2	.6	.9	1.1	1.3	1.5	1.7	2.0	2.4	3.0	5.6	1.7	1.4	1.98

TABLE 2.18 — NITRATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter: Min	Frequency Distribution—Percent: 10	20	30	40	50	60	70	80	90	Max	Arith Mean	Geo Mean	Std Geo Dev
TENNESSEE																
CHATTANOOGA	58	24	.8	.9	1.3	1.8	2.0	2.1	2.2	2.5	3.0	3.5	3.7	2.2	1.9	1.62
	59	26	.6	.6	1.0	1.1	1.2	1.3	1.6	1.7	2.0	2.2	3.2	1.5	1.3	1.49
	58 59	50	.6	.8	1.1	1.2	1.4	1.7	1.9	2.2	2.5	3.1	3.7	1.8	1.6	1.58
NASHVILLE	57	26	.7	1.2	1.4	2.0	2.1	2.3	2.5	2.9	3.3	3.6	14.0	2.7	2.2	1.54
	58	26	1.0	1.5	1.8	2.1	2.4	2.8	3.6	3.9	4.4	4.9	10.1	3.2	2.8	1.63
	57 58	52	.7	1.2	1.7	2.0	2.2	2.4	2.8	3.3	3.8	4.5	14.0	3.0	2.5	1.72
TEXAS																
DALLAS	58	22	.7	.8	1.1	1.6	1.7	1.8	2.2	2.3	3.6	3.9	4.4	2.2	1.9	1.66
HOUSTON	58	24	1.3	1.4	1.7	1.8	2.2	2.5	2.9	3.3	3.5	4.9	6.3	2.8	2.5	1.60
	59	23	1.0	1.4	1.7	1.8	2.0	2.2	2.4	2.5	2.7	3.9	5.0	2.3	2.1	1.42
	58 59	47	1.0	1.4	1.6	1.9	2.0	2.2	2.5	2.9	3.5	4.0	6.3	2.6	2.4	1.50
SAN ANTONIO	58	23	.2	.3	.9	1.1	1.3	1.5	1.6	1.7	1.8	2.1	3.1	1.4	1.2	1.87
UTAH																
SALT LAKE CITY	58	24	.6	.8	1.1	1.2	1.6	1.9	2.0	2.6	2.8	3.5	7.7	2.2	1.8	1.76
VERMONT																
BURLINGTON	58	26	.3	.4	.5	1.1	1.2	1.4	1.8	1.9	2.5	2.7	6.0	1.7	1.3	2.13
VIRGINIA																
NORFOLK	57	23	.4	.9	1.1	1.3	1.5	1.6	1.7	1.9	2.7	3.6	11.2	2.2	1.6	1.65
	58	25	1.1	1.6	1.7	1.8	2.0	2.3	2.4	2.7	2.9	3.4	4.8	2.3	2.2	1.35
	57 58	48	.4	1.1	1.4	1.5	1.7	1.9	2.3	2.5	2.7	3.4	11.2	2.3	2.0	1.66
WASHINGTON																
SEATTLE	57	25	.3	.8	1.0	1.2	1.3	1.6	1.9	2.4	2.7	3.0	3.7	1.7	1.5	1.81
TACOMA	58	24	.8	1.0	1.4	1.5	1.7	1.8	2.0	2.7	3.6	3.9	6.1	2.3	2.0	1.65
WEST VIRGINIA																
CHARLESTON	58	23	.8	1.1	1.3	1.6	1.7	1.8	2.1	2.4	2.8	3.6	4.1	2.1	1.9	1.56
	59	24	.3	.4	.6	.7	.8	.9	.9	1.5	1.8	2.2	7.1	1.3	.9	1.91
	58 59	47	.3	.5	.7	.9	1.1	1.4	1.7	2.0	2.3	3.2	7.1	1.7	1.4	1.91
WISCONSIN																
MILWAUKEE	57	25	.4	.7	.9	1.1	1.2	1.6	1.8	2.2	2.8	4.1	6.2	1.9	1.5	1.96
	58	26	.3	.8	1.1	1.3	1.5	1.9	2.2	2.6	3.2	3.9	6.1	2.2	1.8	1.87
	57 58	51	.3	.7	.9	1.1	1.4	1.7	2.0	2.8	3.2	3.9	6.2	2.1	1.7	1.95
WYOMING																
CHEYENNE	57	25	.5	.7	.7	.8	1.0	1.1	1.1	1.2	1.3	1.4	1.8	1.0	1.0	1.35
	58	24	.2	.3	.6	.6	.7	.8	.9	1.0	1.2	1.5	1.8	.9	.7	1.72
	57 58	49	.2	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.5	1.8	.9	.9	1.54

TABLE 2.19—NITRATES: URBAN STATIONS QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	1.2	2.6	1.8	2.9	1.0	1.7	.8	.6
MONTGOMERY	59	1.5	1.9	1.5	1.5	1.3	1.6	.8	.7
CALIFORNIA									
BERKELEY	59	3.3	3.6	3.8	3.9				
BURBANK									
FRESNO	58	2.8	4.2	4.5	13.0	.9	1.8	2.4	3.0
GLENDALE	59	2.7	13.0	10.9	2.0	4.1	7.6	7.3	8.0
LONG BEACH	58	11.3	10.6	8.3	3.3	5.8	4.9	7.5	8.3
OAKLAND	58	1.6	2.4	6.8	5.3	1.9	1.0	2.0	4.5
RICHMOND	58	3.8	2.8	4.6	4.5	1.4	1.7	1.9	2.4
SACRAMENTO	58	1.7	2.4	3.6	7.7	.8	1.1	2.6	4.3
SAN JOSE	57	5.6	1.0	6.4	8.2				
STOCKTON	58	2.4	2.3	2.6	6.7	1.8	1.8	1.9	3.4
CONNECTICUT									
BRIDGEPORT	58	1.1	3.8	2.0	4.8				
NEW BRITAIN	59	1.9	1.5	1.8	1.0	.5	1.0	.7	.6
STAMFORD	57	1.0	2.1	5.0	1.8	.6	1.4	2.0	.6
FLORIDA									
JACKSONVILLE	58	3.6	9.5	2.6	4.2	1.5	2.4	.9	.7
MIAMI	59	1.3	1.3	2.3	1.0				
ORLANDO	59	1.9	.7	1.5	1.3	.5	.7	.5	.8
GEORGIA									
AUGUSTA	58	.9	1.8	1.8	1.6	.5	.7	.4	.4
COLUMBUS	57	.7	1.3	.9	1.5	.7	.8	.4	.4
MACON	58	1.3	.8	.8	2.1	.7	.6	.7	1.4
SAVANNAH	59	1.5	1.8	1.6	1.5	1.1	.7	1.2	.1
ILLINOIS									
PEORIA	58	3.8	1.9	1.8	1.5	1.7	2.6	1.8	1.6
INDIANA									
GARY	58	1.7	.9	1.2	1.0				
SOUTH BEND	59	1.4	1.9	2.0	1.5	.8	2.2	1.6	1.5
TERRE HAUTE	58	2.0	3.9	1.2	.6				
KANSAS									
TOPEKA	59	2.4	2.3	2.7	3.3	1.6	1.3	1.3	1.4
LOUISIANA									
BATON ROUGE	57	.5	.8	2.0	.9	1.0	.6	1.2	.8
SHREVEPORT	59	2.6	1.6	2.3	1.1				
MASSACHUSETTS									
CAMBRIDGE	59	1.0	1.7	1.0	.7	.5	1.3	.9	.2
LOWELL	59	1.6	3.0	2.0	1.4	1.3	1.7	1.1	.7
NEW BEDFORD	59	.8	1.6	.9	1.4	.8	.6	1.2	.6
WORCESTER	57	1.0	.6	1.3	.7	1.3	1.2	1.0	1.0
MICHIGAN									
DEARBORN	59	1.2	3.7	3.0	1.2	.8	1.7	2.0	1.7
FLINT	57	2.9	5.0	2.8	5.3	1.8	1.5	1.9	1.6
JACKSON	58	1.1	2.0	2.9	2.6	.3	.9	1.0	.6
LANSING	57	1.3	5.1	3.2	1.1	1.9	1.1	1.2	1.1
MINNESOTA									
DULUTH	57	8.4	1.5	2.5	1.4				
NEW JERSEY									
ATLANTIC CITY	58	.6	.5	.7	.6				
ELIZABETH	58	2.4	3.1	3.1	6.4	.7	1.6	2.0	2.2
NORTH CAROLINA									
ASHEVILLE	58	1.2	1.5	1.9	2.1	.5	.4	.7	.6
GREENSBORO	58	1.3	1.0	1.1	1.2	.5	.4	.6	.5
RALEIGH	59	.9	1.9	1.4	.7	.7	.9	1.5	1.0
WINSTON SALEM	57	.6	1.0	1.2	1.1	.3	.4	.6	.4
OHIO									
CANTON	59	1.3	2.8	2.3	4.0				
HAMILTON	59	1.6	3.9	1.3	4.0				
LORAIN	57	2.7	2.5	5.0	6.5	1.3	1.1	1.8	2.0
SPRINGFIELD	58	1.9	2.8	4.7	2.7	1.0	.9	1.0	1.9
TOLEDO	57	2.7	3.3	5.6	7.0	.9	1.2	1.9	1.3
OKLAHOMA									
OKLAHOMA CITY	58	1.6	2.2	3.0	4.4	.6	.8	1.3	.7

TABLE 2.19 — NITRATES: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	5.0	5.6	3.2	4.2	2.3	3.8	2.5	3.1
HARRISBURG	58	2.3	4.0	3.0	4.0	2.1	1.6	1.7	2.6
JOHNSTOWN	59	2.7	2.3	1.6	1.2	1.1	1.7	1.0	1.4
READING	58	.9	2.3	2.5	1.3	.8	1.4	1.2	2.5
SCRANTON	57	1.2	3.5	1.6	.8	.9	1.6	1.3	.4
WILKES BARRE	58	1.3	2.7	2.1	2.0	.5	.8	1.3	.6
YORK	59	2.1	5.5	3.9	3.4	3.0	5.6	2.7	5.6
PUERTO RICO									
SAN JUAN	59	1.1	1.4	1.8	1.2	1.3	1.0	1.4	.6
SOUTH CAROLINA									
CHARLESTON	59	.4	1.1	1.0	1.0	.9	.9	.6	1.2
COLUMBIA	57	1.0	.5	1.2	.7	.6	.4	.5	.4
GREENVILLE	57	1.1	.8	1.1	.7	.8	.9	1.0	1.0
TENNESSEE									
KNOXVILLE	59	1.6	1.5	1.1	2.0	1.5	1.7	2.2	1.5
MEMPHIS	58	1.4	1.1	1.9	2.5	1.1	.7	.6	1.2
TEXAS									
AUSTIN	58	2.5	3.0	1.9	2.7	1.1	1.1	.9	1.1
BEAUMONT	59	1.7	1.2	.4	1.6				
DALLAS									
EL PASO	57	.5	.3	.9	1.6	.6	.5	.6	1.0
FORT WORTH	58	1.6	2.3	1.7	2.5	1.2	1.3	1.8	2.1
GALVESTON	59	3.7	2.6	2.1	1.6				
TEXAS CITY	59	2.0	1.8	3.1	3.8	2.0	1.3	1.0	1.0
WACO	58	1.3	2.4	1.1	1.2	1.1	1.1	.8	1.0
VIRGINIA									
HAMPTON	58	1.2	3.1	1.7	1.6	.7	2.1	1.0	1.7
RICHMOND	57	2.1	1.9	2.5	1.5	.5	.3	.7	.5
ROANOKE	59	1.6	1.9	1.9	3.3	2.1	1.4	1.5	1.7
WEST VIRGINIA									
HUNTINGTON	58	2.7	2.8	1.5	2.0	.7	.8	1.0	.7
WHEELING	59	3.7	2.5	1.8	3.0	2.0	2.0	1.3	2.4
WISCONSIN									
MADISON	59	3.0	1.1	2.4	1.7	1.0	1.0	1.5	1.3

TABLE 2.20 — SULFATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	2197	.1	3.8	5.3	6.7	8.3	9.9	11.8	14.2	17.2	22.2	94.0	11.8	9.6	1.98
NEW ENGLAND	58 59	236	1.0	5.4	6.9	9.1	10.1	11.5	13.4	15.9	19.3	23.9	39.6	13.3	11.6	1.77
MID ATLANTIC	58 60	207	3.2	7.5	9.5	12.7	15.0	17.0	19.0	22.1	26.3	32.7	62.0	18.8	16.3	1.76
MID EAST	57 60	268	1.0	5.5	7.3	8.9	10.6	12.0	13.8	16.6	20.7	27.6	94.0	15.0	12.1	1.84
SOUTH EAST	57 59	217	.9	4.7	6.1	7.4	8.7	9.8	11.0	12.8	14.8	18.2	36.2	10.7	9.5	1.67
MID WEST	57 60	361	1.8	7.6	9.4	10.9	12.1	13.5	15.1	16.9	19.4	23.1	39.5	14.5	13.4	1.52
GREAT PLAINS	57 59	291	1.3	3.2	3.9	4.5	5.5	6.6	8.1	10.2	13.4	17.5	42.5	8.7	6.9	1.98
GULF SOUTH	58 59	168	.2	3.4	3.9	4.6	5.4	6.3	7.1	8.2	9.4	12.8	26.9	7.2	6.2	1.67
ROCKY MOUNTAIN	57 58	148	.2	2.7	3.3	4.0	4.7	5.2	6.0	6.9	8.0	9.0	26.0	5.8	5.1	1.62
PACIFIC COAST	57 59	301	.1	2.9	4.1	5.0	5.9	7.3	8.6	10.6	14.2	18.1	35.9	9.0	7.3	2.03
ALABAMA																
BIRMINGHAM	58	20	5.5	7.5	9.2	9.7	11.0	12.0	13.3	16.0	18.0	26.2	34.1	14.5	13.0	1.59
ALASKA																
ANCHORAGE	58	26	2.8	4.2	4.5	5.0	5.2	5.6	5.8	6.0	7.0	8.7	12.6	6.0	5.8	1.39
ARIZONA																
PHOENIX	58	23	2.1	5.2	6.9	7.9	8.5	10.4	11.9	13.8	14.9	17.9	23.3	11.0	10.0	1.61
	59	21	1.5	1.8	2.0	3.0	3.3	5.2	9.1	13.8	15.8	20.5	26.6	8.8	5.7	2.94
	58 59	44	1.5	2.0	3.3	5.2	7.5	8.8	10.3	13.2	15.3	20.0	26.6	9.9	7.6	2.18
ARKANSAS																
LITTLE ROCK	58	26	1.9	3.2	3.5	4.2	4.7	5.5	6.3	6.7	7.5	9.0	17.5	6.1	5.4	1.62
CALIFORNIA																
LOS ANGELES	57	21	5.9	6.9	9.1	12.5	13.6	15.6	17.1	18.3	19.2	20.1	26.6	14.8	13.9	1.51
	58	21	4.9	6.5	7.9	10.0	11.9	14.9	16.8	21.5	23.5	27.0	35.9	16.0	14.0	1.60
	59	20	2.5	3.9	6.0	8.5	10.4	11.9	14.3	15.6	17.1	20.5	28.0	12.3	10.7	1.86
	57 59	62	2.5	6.0	8.0	10.5	12.2	13.7	15.7	17.2	19.3	22.5	35.9	14.4	12.7	1.70
SAN DIEGO	58	23	2.8	4.2	5.0	5.7	6.0	7.7	8.5	9.2	9.7	12.0	14.9	7.7	7.1	1.49
SAN FRANCISCO	58	25	1.6	3.0	3.8	4.2	4.5	5.0	5.7	6.3	7.0	12.0	20.2	6.2	5.3	1.75
COLORADO																
DENVER	58	25	.2	2.8	3.5	4.7	5.0	5.5	6.2	7.0	8.5	12.0	18.8	6.1	4.5	2.03
CONNECTICUT																
HARTFORD	58	25	2.8	3.5	6.5	8.7	9.5	10.7	13.0	16.0	18.0	25.0	34.4	12.8	10.6	1.93
NEW HAVEN	58	25	3.9	6.0	8.3	10.1	10.4	10.7	11.0	13.0	16.0	25.0	28.8	12.4	11.2	1.57
DELAWARE																
WILMINGTON	58	23	4.3	5.2	9.1	13.6	15.6	19.2	22.0	24.7	27.0	33.3	46.2	19.6	16.5	1.96
	59	20	5.7	10.4	12.8	15.6	17.9	22.0	25.3	29.0	35.6	39.1	44.5	22.8	21.1	1.72
	58 59	43	4.3	7.0	12.0	14.7	17.0	20.6	22.9	24.8	31.2	37.5	46.2	21.1	18.2	1.78
DIST OF COL																
WASHINGTON	58	24	5.1	5.5	8.7	9.5	11.0	12.4	13.2	14.7	16.0	20.0	21.0	12.4	11.6	1.46
FLORIDA																
TAMPA	58	26	6.0	7.0	7.3	7.8	8.5	9.7	10.7	12.0	14.0	16.0	19.7	10.5	9.9	1.39

TABLE 2.20 — SULFATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
GEORGIA																
ATLANTA	58	21	4.6	5.2	6.0	8.0	8.7	9.5	10.0	10.7	11.5	12.7	13.9	9.1	8.6	1.36
HAWAII																
HONOLULU	57	25	2.9	2.9	3.5	3.8	4.0	4.4	4.7	5.2	6.0	8.0	18.4	5.1	4.6	1.50
IDAHO																
BOISE	58	25	2.9	3.1	3.3	4.5	5.0	5.5	7.5	8.3	8.7	10.0	12.0	6.2	5.6	1.56
ILLINOIS																
CHICAGO	58	21	7.5	8.0	11.0	12.4	13.2	14.7	16.0	19.0	22.5	28.7	32.8	16.6	15.2	1.51
INDIANA																
EAST CHICAGO	58	20	11.3	12.7	14.0	16.0	18.0	19.3	20.5	21.5	22.5	25.0	29.0	19.0	18.4	1.28
HAMMOND	59	21	5.9	6.2	6.7	8.0	10.0	11.7	12.5	13.5	17.0	20.0	26.0	12.5	11.3	1.55
INDIANAPOLIS	57	24	4.8	5.2	9.8	10.7	11.6	12.2	12.9	16.2	17.3	20.5	25.9	13.4	12.1	1.57
	58	24	5.0	7.9	10.4	11.2	12.2	12.8	13.5	16.8	18.4	20.0	26.9	13.9	13.1	1.41
	57 58	48	4.8	6.5	10.3	10.9	11.7	12.5	13.5	16.4	18.0	19.4	26.9	13.6	12.6	1.46
IOWA																
DES MOINES	57	26	3.5	5.2	6.0	8.1	8.6	9.8	11.9	13.6	16.8	20.5	42.5	12.3	10.1	1.72
	58	26	3.1	4.7	5.2	6.5	7.1	7.8	9.1	10.7	11.6	14.6	18.8	8.8	8.0	1.56
	57 58	52	3.1	4.7	5.7	7.0	7.7	8.6	10.2	11.5	14.8	18.0	42.5	10.5	9.0	1.70
KANSAS																
WICHITA	57	25	2.7	3.0	4.1	4.5	5.2	6.0	6.3	6.8	7.9	11.9	16.7	6.3	5.7	1.60
	58	22	2.3	3.0	3.2	3.6	3.9	4.2	4.5	5.2	6.9	10.4	13.9	5.4	4.6	1.57
	57 58	47	2.3	3.0	3.3	3.9	4.3	5.0	5.7	6.4	7.0	10.7	16.7	5.9	5.2	1.60
LOUISIANA																
NEW ORLEANS	58	25	4.9	5.3	6.0	7.5	8.0	8.7	9.3	11.5	12.7	16.0	18.7	9.6	8.9	1.44
MAINE																
PORTLAND	58	23	4.2	6.0	9.0	10.0	10.5	12.5	13.5	16.0	20.0	25.0	28.7	14.0	12.3	1.67
MARYLAND																
BALTIMORE	57	24	1.0	3.2	6.9	9.8	11.9	14.0	14.8	19.2	22.0	27.0	32.6	14.4	12.2	2.12
	58	25	5.2	7.2	7.9	10.4	12.8	16.2	17.3	20.5	21.7	23.5	39.7	15.6	14.1	1.66
	59	25	4.1	7.4	10.4	12.3	13.2	17.9	22.0	25.3	27.0	40.8	55.8	20.5	17.2	1.89
	60	24	2.4	4.5	6.0	10.7	11.2	11.9	15.6	23.5	27.0	35.6	41.4	16.5	13.3	2.24
	57 60	98	1.0	5.5	9.0	10.6	12.3	14.0	17.4	21.2	24.2	31.2	55.8	17.0	13.9	1.98
MASSACHUSETTS																
BOSTON	58	24	4.2	7.0	11.5	12.7	14.5	15.5	16.7	20.6	21.9	25.0	33.7	16.3	14.9	1.57
BROCKTON	59	22	4.6	6.5	8.0	10.3	11.0	12.8	13.6	15.0	20.0	25.0	33.2	14.2	12.7	1.62
QUINCY	59	22	5.9	8.0	10.0	13.3	16.0	16.7	17.3	18.0	20.0	28.3	29.6	16.7	15.5	1.51
SPRINGFIELD	59	23	3.7	7.0	9.0	9.7	11.0	13.0	15.0	18.0	20.0	33.7	69.6	16.2	13.6	1.83
MICHIGAN																
DETROIT	58 58	25	5.2	7.0	8.0	9.5	11.0	12.0	13.3	16.5	17.5	20.0	26.0	12.8	11.8	1.52
MINNESOTA																
MINNEAPOLIS	58	26	1.3	3.1	3.4	3.8	4.5	6.3	9.5	10.4	15.6	20.5	23.9	9.4	7.1	2.24
	59	25	2.3	3.4	3.7	4.3	4.7	5.5	6.0	6.5	9.8	11.9	20.2	6.9	5.8	1.68
	58 59	51	1.3	3.2	3.6	3.9	4.7	6.5	8.4	9.5	12.0	16.0	23.9	8.2	6.5	1.95
MISSISSIPPI																
JACKSON	58	24	2.9	3.2	4.5	5.0	5.4	5.7	6.5	8.4	8.8	14.0	16.1	7.0	6.3	1.58
MISSOURI																
KANSAS CITY	58	22	3.8	7.0	8.0	9.0	11.0	12.0	15.0	18.0	19.5	22.5	35.0	14.1	12.5	1.68
ST LOUIS	58	24	6.0	10.0	13.0	14.0	16.4	17.2	18.0	21.2	23.7	26.3	29.9	18.2	17.1	1.45

TABLE 2.20 — SULFATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MONTANA																
HELENA	58	25	1.0	2.1	2.5	3.0	3.5	4.2	4.7	5.5	6.5	8.0	14.0	4.6	4.0	1.76
NEBRASKA																
OMAHA	58	22	2.0	4.0	4.7	5.5	5.8	6.5	7.3	8.0	11.0	13.3	14.8	7.4	6.7	1.60
NEVADA																
LAS VEGAS	58	22	3.1	3.5	5.0	6.5	7.2	7.6	8.0	8.4	9.0	11.0	20.1	7.9	7.2	1.55
NEW HAMPSHIRE																
MANCHESTER	58	20	3.5	4.0	5.0	5.3	6.0	7.0	8.7	9.3	10.0	11.7	12.9	7.6	7.1	1.49
NEW JERSEY																
NEWARK	58	22	5.4	6.0	6.5	7.5	9.0	12.0	14.0	16.0	20.0	22.5	29.7	13.1	11.5	1.66
NEW MEXICO																
ALBUQUERQUE	58	24	.2	2.1	3.6	3.7	4.0	4.3	4.7	5.5	6.0	8.7	9.1	5.0	4.2	2.12
NEW YORK																
NEW YORK CITY	58	25	6.0	9.0	12.0	16.0	17.3	20.6	22.5	31.7	35.0	38.7	53.1	22.8	19.7	1.76
NORTH CAROLINA																
CHARLOTTE	57	25	2.9	3.0	4.5	6.0	6.9	8.1	8.5	9.1	10.0	11.4	14.1	7.8	6.9	1.62
	58	25	4.3	5.4	5.7	6.3	6.9	7.7	8.1	8.9	11.9	13.2	14.7	8.1	7.6	1.43
	57 58	50	2.9	4.2	5.6	6.0	6.8	7.6	8.4	8.9	10.0	12.5	14.7	7.9	7.3	1.46
NORTH DAKOTA																
BISMARCK	57	23	1.6	1.9	2.8	3.4	3.7	4.3	5.2	5.6	6.0	7.9	14.2	4.6	4.1	1.67
	58	26	2.8	2.9	3.1	3.4	4.0	4.3	5.2	5.7	9.1	10.9	15.1	5.7	4.8	1.71
	57 58	49	1.6	2.7	3.0	3.5	4.1	4.3	5.0	5.6	6.7	10.0	15.1	5.3	4.6	1.65
OHIO																
CINCINNATI	58 58	22	4.5	7.2	7.7	11.0	11.7	12.7	14.0	14.8	16.0	17.3	19.4	12.5	11.8	1.44
CLEVELAND	57	26	7.1	8.7	10.4	14.1	15.1	17.9	19.9	21.5	25.3	31.0	39.5	18.7	16.9	1.62
	58	25	6.9	7.9	11.2	13.0	14.1	15.6	16.8	18.8	20.5	27.0	28.2	16.0	15.2	1.52
	57 58	51	6.9	8.0	10.5	12.7	14.4	16.7	18.5	20.6	22.2	28.7	39.5	17.4	15.9	1.54
COLUMBUS	58	26	9.4	10.5	11.2	12.0	12.7	13.7	17.0	20.4	21.7	22.5	27.6	16.1	15.3	1.38
DAYTON	60	26	1.8	5.5	5.8	7.0	7.7	8.5	11.5	13.0	16.0	18.0	24.1	10.6	9.1	1.79
YOUNGSTOWN	57	25	6.3	9.1	10.4	11.9	13.0	14.9	16.8	20.5	23.5	29.7	31.4	16.8	15.5	1.59
	58	25	7.5	9.8	10.4	11.5	12.5	14.3	15.6	16.8	17.5	22.5	26.3	14.5	14.0	1.37
	57 58	50	6.3	9.5	10.4	11.0	12.4	14.3	15.7	17.3	21.2	26.2	31.4	15.6	14.5	1.47
OREGON																
PORTLAND	58	25	2.8	3.2	3.7	4.8	5.5	7.0	8.0	8.7	9.5	14.0	21.2	7.5	6.5	1.70
PENNSYLVANIA																
PHILADELPHIA	58	23	5.9	7.4	12.8	14.1	15.1	17.9	19.2	20.5	22.5	25.8	30.0	17.2	16.3	1.53
	59	20	8.7	10.4	13.6	15.6	16.8	17.9	19.6	28.3	31.0	35.6	62.0	22.9	19.4	1.61
	58 59	43	5.9	9.0	13.2	14.6	15.7	17.6	19.0	20.8	26.2	33.3	62.0	19.8	17.8	1.58
PITTSBURGH	58	26	3.2	6.9	9.1	10.9	11.9	15.6	17.3	18.8	22.0	24.7	28.3	15.1	14.1	1.65
	59	24	8.0	8.5	12.8	14.1	15.6	17.1	20.5	27.0	29.7	40.8	52.8	21.8	18.6	1.77
	60	24	5.5	7.2	8.5	9.1	10.4	13.6	16.4	18.8	20.5	25.3	34.5	15.0	13.2	1.69
	58 60	74	3.2	7.6	9.2	10.7	13.7	16.2	17.5	19.7	23.5	29.2	52.8	17.2	15.0	1.70
RHODE ISLAND																
PROVIDENCE	58	26	3.0	9.0	9.5	11.0	14.0	15.2	17.0	19.0	22.5	25.0	34.9	16.3	14.4	1.69
SOUTH CAROLINA																
COLUMBIA	58	24	1.1	4.0	5.2	5.5	7.0	8.3	9.0	9.7	11.0	14.0	16.7	8.4	7.3	1.77
SOUTH DAKOTA																
SIOUX FALLS	58	24	1.8	2.4	3.3	4.0	4.5	5.2	5.7	6.5	7.3	9.0	12.1	5.5	5.0	1.57

TABLE 2.20 — SULFATES: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
TENNESSEE																
CHATTANOOGA	58	24	5.6	6.9	8.5	9.4	10.4	11.9	14.0	15.2	18.8	22.0	24.6	13.2	12.2	1.57
	59	26	1.0	6.0	6.6	8.3	9.1	10.7	11.6	12.5	14.3	15.6	19.1	10.5	10.0	1.48
	58 59	50	1.0	6.2	7.7	8.8	10.0	11.2	12.3	13.7	15.3	19.0	24.6	11.8	10.7	1.66
NASHVILLE	57	25	.9	1.2	3.0	3.3	3.9	7.1	7.7	9.8	12.5	13.6	25.2	7.7	5.4	2.52
	58	26	5.4	7.9	10.9	12.5	13.6	14.8	16.4	17.9	20.5	22.5	36.2	16.0	14.5	1.47
	57 58	51	.9	3.1	5.0	7.3	9.3	12.0	13.4	15.0	17.3	21.9	36.2	12.1	9.4	2.22
TEXAS																
DALLAS	58	22	3.1	3.7	5.0	5.6	5.9	6.3	7.0	7.7	9.3	10.0	14.8	6.9	6.4	1.44
HOUSTON	58	24	4.1	4.2	4.9	6.0	6.9	8.5	9.5	11.2	12.8	17.9	26.9	9.5	8.2	1.75
	59	24	1.8	3.1	3.3	3.5	3.9	6.0	6.5	7.2	7.9	13.6	17.1	6.5	5.4	1.77
	58 59	48	1.8	3.3	4.0	4.4	5.5	6.6	7.5	9.5	12.0	14.0	26.9	8.0	6.7	1.78
SAN ANTONIO	58	23	1.6	3.0	4.0	4.5	4.7	5.0	6.5	7.3	8.0	11.0	23.3	6.8	5.8	1.77
UTAH																
SALT LAKE CITY	58	24	2.7	3.0	5.5	6.0	7.0	7.3	7.7	8.3	9.0	11.0	26.0	7.9	7.1	1.60
VERMONT																
BURLINGTON	58	26	1.0	3.0	4.5	5.4	5.7	6.3	7.3	8.0	9.5	10.0	18.4	6.9	6.0	1.65
VIRGINIA																
NORFOLK	57	23	6.2	9.1	10.1	10.8	11.5	12.5	13.0	13.6	15.6	20.5	23.4	13.2	12.8	1.33
	58	25	4.9	6.9	7.8	8.7	9.5	10.7	11.3	13.6	14.9	17.9	19.8	11.2	10.7	1.45
	57 58	48	4.9	7.3	9.0	10.2	10.9	11.6	12.5	13.7	15.2	18.5	23.4	12.2	11.5	1.41
WASHINGTON																
SEATTLE	57	22	.1	.1	.2	1.5	1.8	3.0	4.5	7.0	9.0	10.0	17.9	4.7	2.3	4.50
TACOMA	58	24	3.6	4.2	5.5	8.0	9.5	12.0	13.3	16.7	18.0	22.5	26.4	12.6	10.7	1.81
WEST VIRGINIA																
CHARLESTON	58	23	3.8	5.2	6.9	9.1	11.2	13.6	19.2	23.5	27.0	35.6	46.2	17.4	14.0	2.17
	59	24	1.5	11.9	14.8	15.6	19.2	20.5	27.0	31.0	40.8	53.7	94.0	28.3	23.2	1.80
	58 59	47	1.5	6.5	10.0	13.0	15.6	19.3	22.5	26.9	33.3	45.0	94.0	23.0	17.7	2.18
WISCONSIN																
MILWAUKEE	57	25	2.2	7.4	8.5	9.5	10.0	11.2	12.8	14.4	15.2	22.0	27.4	12.1	11.7	1.48
	58	26	6.5	9.1	10.0	10.8	11.3	11.9	13.6	14.9	17.1	20.5	23.6	13.4	12.8	1.36
	57 58	51	2.2	7.7	9.2	9.8	10.6	11.7	13.0	14.6	16.0	20.6	27.4	12.8	11.8	1.53
WYOMING																
CHEYENNE	57	25	2.6	3.4	3.9	4.6	4.8	5.1	5.4	5.8	6.5	7.9	12.3	5.4	5.1	1.35
	58	24	1.1	2.5	3.1	3.4	3.9	4.5	5.0	5.7	6.9	7.7	11.3	4.8	4.4	1.56
	57 58	49	1.1	2.7	3.5	3.9	4.6	4.8	5.1	5.6	6.5	7.6	12.3	5.1	4.7	1.52

TABLE 2.21 — SULFATES: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	10.8	19.5	10.7	24.8	5.2	8.1	4.7	9.5
MONTGOMERY	59	4.7	7.0	4.3	6.5	4.3	4.6	3.0	4.7
CALIFORNIA									
BERKELEY	59	11.4	6.8	6.0	17.4				
BURBANK									
FRESNO	58	2.4	3.7	4.9	19.8	1.8	3.0	3.2	5.5
GLENDALE	59	33.7	17.8	24.2	7.5	13.8	15.5	20.3	11.4
LONG BEACH	58	52.4	23.0	15.3	13.2	21.0	11.6	18.2	20.0
OAKLAND	58	9.3	3.0	11.6	12.9	3.9	3.0	4.4	8.7
RICHMOND	58	5.3	7.9	11.3	11.1	4.0	4.6	6.5	6.4
SACRAMENTO	58	3.5	2.2	4.9	14.7	2.8	3.5	4.0	5.9
SAN JOSE	57	9.1	2.7	5.3	10.5	4.7	2.1	4.2	3.8
STOCKTON	58	5.1	5.1	6.6	19.1	2.9	2.9	4.3	10.8
CONNECTICUT									
BRIDGEPORT	58	18.4	13.7	18.8	30.8				
NEW BRITAIN	59	43.7	7.7	24.0	24.5	16.8	12.2	14.4	10.6
STAMFORD	57	35.5	19.7	21.1	31.4	10.4	8.7	8.4	10.2
FLORIDA									
JACKSONVILLE	58	13.3	10.0	6.3	9.9	7.9	5.4	4.6	8.6
MIAMI	59	5.7	5.9	4.4	6.8				
ORLANDO	59	10.6	2.1	4.7	7.5	7.4	4.1	3.0	4.4
GEORGIA									
AUGUSTA	58	8.6	8.0	15.8	11.3	5.6	3.1	5.3	4.4
COLUMBUS	57	14.5	6.5	9.8	10.7	5.0	3.4	7.0	4.4
MACON	58	11.8	6.8	6.7	12.8	3.3	1.8	1.8	4.0
SAVANNAH	59	9.7	10.5	9.6	12.0	7.6	4.9	5.2	10.7
ILLINOIS									
PEORIA	58	17.1	27.6	15.0	11.8	13.1	12.6	7.8	13.9
ROCKFORD	59	21.0	5.5	12.2	3.3	11.2	5.0	4.1	6.2
INDIANA									
GARY	58	27.9	11.0	12.7	33.6				
SOUTH BEND	59	15.1	9.6	16.3	26.1	7.3	8.6	7.6	7.4
TERRE HAUTE	58	21.4	18.2	8.2	6.3				
KANSAS									
TOPEKA	59	5.7	7.3	3.8	9.1	6.1	3.1	1.9	3.7
LOUISIANA									
BATON ROUGE	57	2.7	3.9	6.4	11.3	4.9	4.0	6.2	8.1
SHREVEPORT	59	14.0	14.6	8.8	27.2	10.0	13.1	8.4	11.5
MASSACHUSETTS									
CAMBRIDGE	59	19.4	19.1	38.2	26.5	12.1	11.0	10.5	13.5
FALL RIVER	58	13.6	6.8	6.2	7.3	10.9	7.1	6.4	7.0
LOWELL	59	20.2	15.9	24.5	6.3	9.3	9.7	8.7	4.8
WORCESTER	57	20.4	10.3	10.4	14.2	10.9	10.7	7.1	7.3
MICHIGAN									
DEARBORN	59	13.0	17.7	20.9	16.9	8.5	8.2	12.3	10.2
FLINT	57	10.0	22.9	19.9	15.3	10.0	6.4	8.6	7.0
JACKSON	58	13.8	7.4	8.8	6.5	5.9	4.1	6.5	4.2
LANSING	57	5.4	17.8	22.6	9.9	6.2	5.9	5.9	4.6
SAGINAW	58	10.7	8.0	9.3	9.5	4.9	3.3	5.3	6.3
MINNESOTA									
DULUTH	57	25.1	12.4	8.0	12.5	10.0	4.6	6.1	8.0
NEW JERSEY									
ATLANTIC CITY	58	9.7	5.4	10.9	7.4	11.0	5.8	6.9	6.4
ELIZABETH	58	20.3	27.2	11.4	27.6	12.6	18.6	7.9	17.0
JERSEY CITY	59	34.0	15.5	32.2	25.8	24.5	16.9	28.3	21.8
NORTH CAROLINA									
ASHEVILLE	58	9.7	6.7	8.6	8.1	7.5	6.2	7.0	5.2
GREENSBORO	58	6.7	4.5	3.8	6.5	5.9	7.1	6.0	5.0
RALEIGH	59	9.7	7.8	9.3	7.9	5.5	3.4	4.9	5.7
WINSTON SALEM	57	5.2	10.0	12.8	9.5	5.1	2.8	6.1	4.3
OHIO									
CANTON	59	26.2	24.0	18.9	39.9				
HAMILTON	59	16.2	16.5	22.5	18.2	10.9	8.2	11.3	9.8
LORAIN	57	13.7	11.6	20.0	35.1	8.3	8.5	5.9	9.6
SPRINGFIELD	58	11.4	13.0	21.2	13.1	6.6	5.8	8.1	8.8
TOLEDO	57	14.3	9.7	30.9	30.9	9.2	6.7	10.3	8.2

TABLE 2.21 — SULFATES: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
OKLAHOMA									
OKLAHOMA CITY	58	6.3	5.2	5.0	5.2	1.8	3.5	2.5	2.5
PENNSYLVANIA									
ALLENTOWN	59	23.8	15.1	27.9	30.5	15.9	12.9	15.3	14.1
HARRISBURG	58	15.9	15.6	7.3	22.0	19.2	8.4	7.8	12.3
JOHNSTOWN	59	21.9	20.2	18.9	24.5	13.9	14.0	12.5	8.8
READING	58	8.6	5.0	11.3	18.6	8.0	8.0	6.7	14.7
SCRANTON	57	11.9	17.1	16.4	36.5	11.2	13.3	13.3	23.2
WILKES BARRE	58	20.3	12.3	12.1	11.1	9.6	9.4	7.1	6.1
YORK	59	48.8	33.8	22.2	12.0	20.4	19.5	12.1	12.8
PUERTO RICO									
SAN JUAN	59	7.7	5.5	9.0	6.7	1.6	3.8	2.7	3.9
SOUTH CAROLINA									
CHARLESTON	59	15.2	4.5	9.3	8.3	7.6	3.7	4.0	6.9
COLUMBIA	57	10.9	6.6	20.3	10.3	6.0	4.6	8.7	7.1
GREENVILLE	57	7.4	8.3	21.2	11.7	6.3	5.1	9.3	6.7
TENNESSEE									
KNOXVILLE	59	5.6	12.5	10.4	15.7	5.9	5.9	10.3	8.8
MEMPHIS	58	5.8	4.1	6.9	6.6	6.7	4.9	4.1	3.5
TEXAS									
AUSTIN	58	4.1	5.4	4.9	5.8	4.7	5.6	4.0	4.1
BEAUMONT	59	14.4	7.6	2.7	3.6				
DALLAS									
EL PASO	57	8.4	5.1	6.1	20.7	8.3	7.2	4.7	14.7
FORT WORTH	58	3.9	7.3	1.3	5.7	3.3	3.4	.9	5.1
GALVESTON	59	8.6	6.5	6.2	7.6				
TEXAS CITY	59	19.7	17.0	15.0	8.4	6.9	8.5	6.1	3.8
WACO	58	3.7	7.7	5.6	8.8	2.7	3.2	2.0	3.2
VIRGINIA									
HAMPTON	58	6.4	12.7	8.9	4.8	6.9	9.8	10.3	8.3
RICHMOND	57	21.4	6.8	21.2	11.5	9.4	4.9	10.9	6.3
ROANOKE	59	10.8	4.7	4.5	31.3	2.9	9.4	7.8	11.8
WEST VIRGINIA									
HUNTINGTON	58	13.7	10.3	7.9	10.2	8.6	6.8	6.5	6.0
WHEELING	59	20.4	31.3	43.7	30.9	15.2	23.9	19.4	19.2
WISCONSIN									
MADISON	59	16.6	4.4	11.0	7.6	8.6	3.9	3.9	9.6

TABLE 2.22—CHROMIUM: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent								Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.001	.011	.016	.021	.025	.030	.039	.053	.094	.998	.047	.020	4.09
NEW ENGLAND	58	43		.001	.010	.012	.017	.021	.023	.029	.034	.054	.350	.034	.015	3.39
MID ATLANTIC	58 60	45	.005	.012	.017	.029	.044	.060	.096	.153	.233	.320	.380	.117	.063	3.93
MID EAST	57 60	99		.013	.021	.027	.034	.044	.067	.094	.148	.299	.998	.119	.054	3.28
SOUTH EAST	57 58	119		.009	.014	.017	.021	.025	.030	.036	.044	.054	.160	.030	.024	1.98
MID WEST	57 60	172		.001	.015	.021	.026	.030	.037	.047	.070	.099	.380	.045	.024	4.08
GREAT PLAINS	58	123		.001	.009	.011	.015	.020	.022	.026	.030	.046	.130	.022	.014	3.26
GULF SOUTH	58	50			.001	.009	.015	.021	.025	.028	.039	.054	.140	.025		
ROCKY MOUNTAIN	58	73			.001	.009	.011	.014	.017	.020	.025	.038	.099	.016		
PACIFIC COAST	57 58	95		.001	.012	.017	.022	.026	.028	.037	.049	.064	.200	.032	.019	3.58
ALABAMA																
BIRMINGHAM	58	21		.001	.010	.013	.017	.036	.040	.044	.060	.082	.140	.038	.020	4.33
CALIFORNIA																
LOS ANGELES	58	21		.001	.022	.025	.027	.028	.032	.046	.049	.054	.160	.037	.022	3.07
COLORADO																
DENVER	58	25		.001	.001	.010	.012	.017	.021	.025	.036	.040	.050	.019	.016	4.[illegible]
FLORIDA																
TAMPA	58	26		.014	.016	.017	.018	.027	.032	.036	.047	.051	.160	.032	.025	1.76
GEORGIA																
ATLANTA	58	20		.001	.001	.013	.016	.019	.022	.026	.036	.044	.081	.023	.011	4.58
ILLINOIS																
CHICAGO	58	21		.001	.014	.020	.021	.028	.032	.040	.043	.047	.076	.028	.019	3.19
INDIANA																
INDIANAPOLIS	58	24		.001	.008	.014	.021	.022	.026	.030	.032	.057	.081	.024	.016	3.47
IOWA																
DES MOINES	58	26		.006	.009	.012	.016	.020	.022	.023	.029	.032	.047	.019	.016	1.91
KANSAS																
WICHITA	58	22		.001	.008	.011	.013	.019	.022	.023	.026	.029	.046	.017	.012	2.90
LOUISIANA																
NEW ORLEANS	58	25			.001	.009	.014	.023	.025	.036	.039	.060	.110	.025		
MARYLAND																
BALTIMORE	57	24	.023	.025	.029	.035	.040	.044	.060	.112	.146	.239	.290	.094	.060	2.52
	58	25	.011	.017	.021	.023	.027	.036	.049	.074	.082	.153	.210	.058	.041	2.37
	60	25	.028	.057	.078	.091	.101	.160	.210	.325	.420	.915	.998	.301	.180	2.78
	57 60	74	.011	.022	.028	.036	.054	.076	.094	.138	.203	.325	.998	.152	.076	3.44
MASSACHUSETTS																
BOSTON	58	23		.001	.018	.019	.022	.026	.032	.036	.052	.124	.350	.051	.022	3.94
MICHIGAN																
DETROIT	58	25		.001	.001	.011	.016	.028	.034	.040	.057	.074	.082	.029	.014	6.00

TABLE 2.22—CHROMIUM: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26		.001	.001	.009	.011	.015	.020	.021	.031	.040	.070	.020	.009	4.50
MISSOURI																
ST LOUIS	58	24		.001	.017	.021	.028	.032	.042	.049	.054	.091	.130	.041	.024	3.60
NEW HAMPSHIRE																
MANCHESTER	58	20		.001	.001	.010	.011	.012	.016	.019	.023	.031	.044	.015	.008	3.92
NORTH CAROLINA																
CHARLOTTE	58	25		.007	.010	.013	.016	.018	.023	.029	.036	.044	.071	.023	.018	2.05
NORTH DAKOTA																
BISMARCK	58	25		.001	.001	.010	.011	.013	.015	.021	.025	.029	.034	.014	.008	3.94
OHIO																
CLEVELAND	58	25	.011	.014	.021	.027	.028	.036	.044	.049	.064	.082	.130	.043	.035	1.94
DAYTON	60	26	.030	.067	.074	.093	.097	.118	.133	.143	.162	.200	.380	.129	.114	1.54
OREGON																
PORTLAND	58	25		.001	.007	.012	.013	.019	.023	.038	.044	.065	.071	.025	.015	4.05
PENNSYLVANIA																
PHILADELPHIA	58	21	.005	.009	.010	.012	.014	.023	.026	.032	.040	.049	.078	.026	.020	2.06
PITTSBURGH	60	24	.051	.057	.091	.101	.146	.189	.222	.274	.304	.350	.380	.197	.166	1.92
TENNESSEE																
NASHVILLE	57	26	.015	.019	.021	.025	.027	.029	.031	.033	.040	.049	.076	.032	.029	1.42
	58	26		.010	.011	.015	.017	.021	.025	.036	.040	.047	.068	.025	.021	1.94
	57 58	52		.011	.016	.020	.023	.026	.030	.034	.040	.049	.076	.029	.025	1.74
TEXAS																
HOUSTON	58	25		.001	.001	.013	.015	.021	.025	.027	.029	.054	.140	.025	.011	4.70
UTAH																
SALT LAKE CITY	58	24			.001	.008	.012	.015	.017	.021	.023	.040	.099	.019		
WASHINGTON																
SEATTLE	57	25	.017	.022	.023	.028	.030	.036	.047	.052	.057	.091	.200	.047	.038	1.73
TACOMA	58	24			.001	.001	.013	.016	.017	.020	.027	.032	.120	.018		
WISCONSIN																
MILWAUKEE	57	25		.001	.018	.023	.026	.029	.034	.040	.044	.074	.088	.034	.022	3.36
	58	26		.001	.001	.016	.020	.024	.028	.032	.035	.040	.087	.024	.012	4.46
	57 58	51		.001	.016	.019	.023	.027	.031	.035	.040	.060	.088	.029	.019	3.23
WYOMING																
CHEYENNE	58	24			.001	.001	.011	.012	.013	.017	.019	.026	.030	.011		

TABLE 2.23—CHROMIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.031	.044	.040	.043	.031	.033	.032	.130
MONTGOMERY	59	.083	.065	.068	.097	.024	.100	.075	.030
ALASKA									
ANCHORAGE	58	.071	.054	.062	.054	.015	.038	.016	.026
ARIZONA									
PHOENIX	59	.180	.360	.190	.280	.190	.097	.140	.120
TUCSON	60	.031	.039	.031	.051				
ARKANSAS									
LITTLE ROCK	58	.056	.039	.042	.040	.036	.018	.018	.017
CALIFORNIA									
BERKELEY	59	.150	.170	.240	.140	.100	.085	.067	.099
BURBANK	60	.030	.040	.024	.059				
FRESNO	58	.019	.041	.026	.031	.017	.028	.015	.042
GLENDALE	59	.085	.260	.130	.240	.130	.056	.110	.092
LONG BEACH	58	.047	.031	.035	.100	.019	.022	.031	.048
OAKLAND	58	.032	.041	.045	.120	.042	.015	.031	.045
RICHMOND	58	.026	.023	.045	.027	.025	.019	.110	.033
SACRAMENTO	58	.018	.017	.038	.027	.016	.013	.040	.041
SAN BERNARDINO	59	.230	.220	.350	.500	.130	.240	.210	.140
SAN DIEGO	58	.016	.013	.017	.049	.017	.016	.015	.023
SAN FRANCISCO	58	.140	.090	.032	.045	.071	.026	.016	.034
SAN JOSE	57	.054	.040	.065	.082	.052	.041	.050	.038
STOCKTON	58	.021	.036	.026	.025	.020	.021	.030	.023
CONNECTICUT									
BRIDGEPORT	60	.110	.100	.220	.130				
HARTFORD	58	.035	.032	.031	.029	.035	.032	.019	.022
NEW BRITAIN	59	.190	.150	.094	.120				
NEW HAVEN	58	.025	.020	.029	.031	.034	.036	.034	.031
STAMFORD	57	.100	.087	.094	.091	.044	.040	.050	.029
DELAWARE									
WILMINGTON	58	.190	.052	.079	.023	.110	.052	.080	.055
DIST OF COL									
WASHINGTON D C	58	.060	.050	.056	.058	.065	.031	.067	.080
FLORIDA									
JACKSONVILLE	58	.030	.037	.034	.057	.033	.015	.018	.022
MIAMI	59	.160	.160	.180	.120	.120	.066	.073	.074
ORLANDO	59	.180	.098	.100	.130	.095	.052	.095	.078
GEORGIA									
AUGUSTA	58	.039	.029	.024	.035	.014	.020	.016	.017
COLUMBUS	57	.033	.055	.038	.047	.030	.020	.016	.036
MACON	58	.047	.038	.025	.047	.059	.059	.056	.041
SAVANNAH	59	.026	.040	.069	.038	.039	.058	.057	.041
HAWAII									
HONOLULU	58	.032	.044	.028	.081	.036	.033	.021	.029
IDAHO									
BOISE	58	.061	.018	.021	.033	.041	.041	.430	.020
ILLINOIS									
PEORIA	58	.022	.028	.037	.024	.030	.020	.028	.037
ROCKFORD	59	.046	.053	.028	.019	.028	.029	.027	.019
INDIANA									
EAST CHICAGO	59	.998	.590	.250	.560	.410	.120	.120	.190
EVANSVILLE	60	.027	.064	.043	.059				
FORT WAYNE	60	.040	.034	.058	.056				
GARY	60	.640	.110	.100	.710				
HAMMOND	59	.075	.280	.140	.130	.048	.096	.050	.055
SOUTH BEND	59	.043	.095	.059	.170	.076	.082	.073	.043
TERRE HAUTE	58	.061	.042	.055	.018				
IOWA									
DAVENPORT	58	.073	.030	.040	.020	.036	.034	.040	.035
KANSAS									
KANSAS CITY	60	.024	.036	.069	.036				
TOPEKA	59	.053	.059	.045	.110	.061	.120	.057	.073
LOUISIANA									
BATON ROUGE	57	.057	.029	.038	.061	.028	.024	.034	.028
SHREVEPORT	59	.075	.090	.082	.120	.067	.110	.110	.094
MAINE									
PORTLAND	58	.083	.044	.023	.041	.077	.040	.052	.031

TABLE 2.23 — CHROMIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.063	.033	.026	.029	.047	.038	.023	.059
CAMBRIDGE	59	.150	.190	.170	.160	.018	.010	.010	.019
FALL RIVER	58	.025	.022	.083	.020	.032	.031	.017	.029
LAWRENCE	60	.120	.090	.078	.100				
LOWELL	59	.120	.160	.180	.160	.008	.021	.010	.014
LYNN	60	.110	.130	.072	.220				
NEW BEDFORD	59	.060	.073	.077	.052				
QUINCY	58	.017	.042	.019	.048	.035	.052	.040	.035
SOMERVILLE	60	.110	.062	.050	.056				
SPRINGFIELD	60	.028	.066	.065	.033				
WORCESTER	57	.085	.041	.042	.058	.044	.042	.029	.032
MICHIGAN									
DEARBORN	59	.240	.260	.170	.270	.053	.120	.081	.072
FLINT	57	.360	.140	.055	.055	.050	.045	.049	.034
JACKSON	58	.023	.068	.028	.028	.020	.024	.019	.015
KALAMAZOO	60	.038	.056	.042	.052				
LANSING	57	.033	.060	.057	.049	.027	.034	.041	.030
SAGINAW	58	.039	.043	.054	.040	.021	.034	.021	.032
MINNESOTA									
DULUTH	57	.110	.030	.110	.070	.026	.016	.020	.016
MISSISSIPPI									
JACKSON	58	.038	.032	.063	.061	.027	.049	.004	.030
MISSOURI									
KANSAS CITY	58	.033	.027	.040	.041	.085	.036	.047	.024
MONTANA									
HELENA	58	.030	.035	.034	.015	.036	.013	.008	.012
NEBRASKA									
LINCOLN	60	.028	.016	.028	.021				
NEVADA									
LAS VEGAS	58	.063	.039	.037	.055	.045	.041	.040	.038
NEW JERSEY									
ATLANTIC CITY	58	.020	.022	.025	.022	.026	.026	.026	.023
EAST ORANGE	60	.120	.021	.028	.073				
ELIZABETH	58	.042	.058	.031	.069	.021	.110	.034	.031
JERSEY CITY	59	.200	.200	.170	.360	.400	.360	.100	.120
NEWARK	59	.370	.180	.310	.320	.160	.060	.110	.110
NEW MEXICO									
ALBUQUERQUE	58	.110	.052	.120	.044	.040	.030	.029	.031
NEW YORK									
BINGHAMTON	60	.089	.097	.041	.055				
ELMIRA	60	.055	.064	.026	.090				
NEW YORK CITY	60	.370	.110	.160	.057				
SCHENECTADY	60	.032	.032	.054	.049				
SYRACUSE	60	.086	.067	.068	.064				
UTICA	60	.029	.034	.018	.067				
NORTH CAROLINA									
GREENSBORO	58	.050	.025	.027	.071	.020	.033	.016	.019
RALEIGH	59	.086	.058	.080	.110	.050	.043	.042	.030
WINSTON SALEM	57	.064	.039	.034	.046	.041	.034	.039	.032
OHIO									
AKRON	60	.059	.025	.046	.130				
CANTON	59	.360	.540	.410	.480	.190	.270	.160	.140
CINCINNATI	58	.200	.230	.078	.170	.033	.040	.029	.060
COLUMBUS	58	.042	.045	.028	.080	.130	.039	.031	.036
HAMILTON	59	.060	.058	.060	.084	.054	.064	.100	.043
LORAIN	57	.140	.035	.071	.150	.060	.048	.034	.099
SPRINGFIELD	58	.071	.038	.026	.047	.032	.026	.031	.022
TOLEDO	57	.067	.072	.110	.160	.058	.025	.062	.086
YOUNGSTOWN	58	.047	.160	.059	.048	.026	.042	.079	.049
OKLAHOMA									
OKLAHOMA CITY	58	.039	.028	.054	.027	.032	.038	.100	.023
PENNSYLVANIA									
ALLENTOWN	59	.270	.170	.120	.130	.080	.110	.080	.140
HARRISBURG	58	.140	.140	.056	.090	.065	.081	.060	.059
JOHNSTOWN	59	.240	.310	.120	.190	.140	.150	.140	.130
READING	58	.190	.044	.063	.510	.064	.037	.100	.120
SCRANTON	57	.064	.089	.070	.095	.025	.037	.060	.045
YORK	59	.089	.110	.087	.120	.021	.033	.013	.047

TABLE 2.23—CHROMIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE—Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PUERTO RICO									
SAN JUAN	59	.160	.170	.330	.180	.140	.110	.180	.083
RHODE ISLAND									
PROVIDENCE	58	.039	.047	.042	.120	.024	.015	.024	.054
SOUTH CAROLINA									
CHARLESTON	59	.130	.043	.026	.039	.062	.019	.039	.018
COLUMBIA	57	.060	.037	.039	.028	.044	.025	.023	.034
GREENVILLE	57	.042	.060	.047	.056	.056	.036	.051	.041
TENNESSEE									
CHATTANOOGA	58	.210	.056	.071	.180	.033	.029	.068	.081
KNOXVILLE	59	.140	.110	.140	.210	.110	.110	.058	.069
MEMPHIS	58	.018	.024	.040	.110	.040	.041	.051	.043
TEXAS									
AUSTIN	58	.044	.024	.027	.033	.027	.038	.045	.030
BEAUMONT	59	.170	.085	.100	.120	.070	.120	.058	.070
CORPUS CHRISTI	60	.032	.062	.024	.027				
DALLAS	58	.025	.025	.020	.014	.046	.043	.029	.140
EL PASO	57	.058	.076	.038	.073	.030	.025	.031	.067
FORT WORTH	58	.038	.080	.099	.023	.024	.020	.033	.013
GALVESTON	59	.100	.120	.110	.120	.009	.180	.100	.120
SAN ANTONIO	58	.080	.045	.053	.074	.018	.017	.021	.035
TEXAS CITY	59	.200	.110	.140	.160	.095	.100	.180	.170
VERMONT									
BURLINGTON	58	.016	.024	.012	.018	.027	.038	.027	.033
VIRGINIA									
DANVILLE	60	.031	.044	.027	.052				
HAMPTON	58	.027	.037	.110	.026	.026	.015	.044	.011
NORFOLK	58	.064	.087	.054	.056	.020	.020	.020	.025
RICHMOND	57	.120	.041	.052	.072	.058	.036	.036	.034
ROANOKE	59	.110	.057	.054	.130	.040	.025	.025	.034
WEST VIRGINIA									
CHARLESTON	58	.092	.190	.160	.330	.073	.059	.028	.047
HUNTINGTON	58	.045	.020	.033	.220	.014	.022	.015	.020
WHEELING	59	.180	.150	.190	.280	.280	.150	.170	.190
WISCONSIN									
MADISON	59	.058	.053	.038	.040	.025	.025	.027	.035
RACINE	60	.034	.045	.062	.028				

TABLE 2.24 — COPPER: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.01	.02	.03	.04	.05	.06	.07	.09	.13	2.50	.07	.04	2.54
NEW ENGLAND	58	43			.01	.02	.03	.04	.04	.05	.07	.10	.12	.04		
MID ATLANTIC	58 60	45		.02	.04	.05	.06	.07	.09	.11	.13	.22	.53	.10	.07	2.31
MID EAST	57 60	99		.02	.03	.04	.05	.06	.07	.08	.09	.12	.50	.08	.05	1.95
SOUTH EAST	57 58	119			.01	.01	.02	.03	.04	.05	.06	.09	1.40	.05		
MID WEST	57 60	172		.01	.03	.04	.05	.06	.07	.08	.10	.16	.80	.08	.05	2.50
GREAT PLAINS	58	123		.01	.02	.03	.04	.05	.06	.07	.09	.13	.81	.08	.04	2.54
GULF SOUTH	58	50		.01	.01	.02	.03	.04	.04	.05	.06	.07	.23	.04	.03	2.30
ROCKY MOUNTAIN	58	73			.01	.02	.03	.04	.04	.05	.06	.12	.21	.04		
PACIFIC COAST	57 58	95		.01	.02	.03	.04	.05	.06	.08	.10	.18	2.50	.10	.04	2.82
ALABAMA																
BIRMINGHAM	58	21				.01	.01	.01	.02	.04	.05	.06	.16	.04		
CALIFORNIA																
LOS ANGELES	58	21	.02	.03	.05	.06	.08	.10	.13	.17	.22	.57	2.50	.28	.10	2.83
COLORADO																
DENVER	58	25		.01	.02	.03	.03	.04	.05	.07	.09	.13	.21	.05	.04	2.55
FLORIDA																
TAMPA	58	26		.01	.01	.01	.01	.02	.03	.04	.05	.06	.08	.03	.02	2.34
GEORGIA																
ATLANTA	58	20			.01	.01	.02	.02	.03	.03	.04	.07	.10	.03		
ILLINOIS																
CHICAGO	58	21		.03	.03	.04	.05	.06	.07	.08	.08	.09	.16	.06	.05	1.63
INDIANA																
INDIANAPOLIS	58	24	.05	.06	.06	.07	.08	.08	.09	.10	.13	.18	.23	.10	.08	1.51
IOWA																
DES MOINES	58	26		.01	.01	.02	.02	.03	.04	.04	.05	.06	.08	.03	.02	2.15
KANSAS																
WICHITA	58	22	.02	.03	.04	.05	.05	.06	.06	.08	.09	.18	.39	.09	.06	1.61
LOUISIANA																
NEW ORLEANS	58	25		.01	.02	.03	.03	.04	.04	.05	.06	.07	.13	.04	.03	1.99
MARYLAND																
BALTIMORE	57	24	.04	.04	.05	.06	.06	.06	.07	.08	.10	.12	.18	.07	.06	1.49
	58	25		.02	.04	.04	.05	.05	.06	.08	.09	.12	.32	.07	.05	1.65
	60	25	.03	.03	.04	.06	.06	.07	.08	.09	.16	.37	.50	.12	.07	2.35
	57 60	74		.03	.04	.05	.06	.06	.07	.08	.10	.16	.50	.09	.06	1.79
MASSACHUSETTS																
BOSTON	58	23	.02	.02	.04	.04	.05	.06	.07	.08	.09	.11	.12	.06	.05	1.83
MICHIGAN																
DETROIT	58	25			.01	.01	.01	.02	.02	.04	.04	.06	.07	.02		

TABLE 2.24—COPPER: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES—Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26	.02	.03	.05	.06	.07	.09	.11	.12	.26	.35	.81	.16	.09	2.50
MISSOURI																
ST LOUIS	58	24		.02	.04	.05	.05	.06	.07	.09	.09	.12	.55	.08	.05	1.85
NEW HAMPSHIRE																
MANCHESTER	58	20				.01	.01	.01	.02	.03	.03	.04	.05	.01		
NORTH CAROLINA																
CHARLOTTE	58	25	.01	.01	.01	.02	.04	.05	.05	.06	.08	.09	.12	.05	.03	2.59
NORTH DAKOTA																
BISMARCK	58	25		.01	.01	.02	.03	.04	.05	.05	.06	.07	.31	.04	.03	2.32
OHIO																
CLEVELAND	58	25	.02	.02	.03	.04	.05	.06	.06	.07	.08	.11	.13	.06	.05	1.84
DAYTON	60	26		.04	.04	.06	.07	.08	.10	.13	.17	.22	.24	.10	.08	2.04
OREGON																
PORTLAND	58	25			.01	.01	.02	.03	.04	.06	.06	.12	.22	.04		
PENNSYLVANIA																
PHILADELPHIA	58	21		.01	.03	.04	.05	.06	.06	.07	.11	.15	.53	.08	.05	2.45
PITTSBURGH	60	24		.02	.06	.07	.08	.10	.11	.12	.15	.37	.44	.12	.09	2.43
TENNESSEE																
NASHVILLE	57	26		.03	.03	.04	.04	.05	.05	.06	.07	.08	.12	.05	.04	1.50
	58	26		.01	.01	.02	.03	.04	.05	.06	.10	.13	1.40	.12	.03	2.96
	57 58	52		.01	.02	.03	.04	.04	.05	.06	.08	.11	1.40	.08	.03	2.34
TEXAS																
HOUSTON	58	25		.01	.01	.02	.03	.04	.04	.06	.07	.08	.23	.04	.03	2.47
UTAH																
SALT LAKE CITY	58	24			.01	.02	.04	.04	.05	.06	.08	.16	.19	.05		
WASHINGTON																
SEATTLE	57	25		.03	.04	.05	.06	.06	.07	.08	.09	.13	.42	.08	.06	1.68
TACOMA	58	24			.01	.01	.02	.02	.05	.06	.07	.08	.36	.05		
WISCONSIN																
MILWAUKEE	57	25	.02	.03	.04	.05	.06	.08	.08	.16	.22	.44	.80	.16	.08	2.76
	58	26		.01	.02	.03	.04	.05	.05	.06	.07	.08	.40	.05	.03	2.13
	57 58	51		.02	.03	.04	.05	.06	.07	.08	.11	.31	.80	.11	.06	2.52
WYOMING																
CHEYENNE	58	24			.01	.01	.01	.02	.03	.04	.04	.05	.06	.02		

TABLE 2.25 — COPPER: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.21	.20	.08	.15	.36	.27	.09	.37
MONTGOMERY	59	.15	.07	.02	.02	.03	.06	.03	.00
ALASKA									
ANCHORAGE	58	.03	.03	.03	.03	.03	.06	.02	.05
ARIZONA									
PHOENIX	59	.20	.09	.26	.07	.10	.03	.08	.04
TUCSON	60	.09	.09	.05	.09				
ARKANSAS									
LITTLE ROCK	58	.66	.08	.21	.17	.02	.23	.40	.11
CALIFORNIA									
BERKELEY	59	.07	.07	.07	.07	.02	.05	.05	.07
BURBANK	60	.08	.09	.04	.09				
FRESNO	58	.02	.33	.03	.04	.01	.04	.02	.03
GLENDALE	59	.22	.50	.31	.36	.21	.19	.22	.15
LONG BEACH	58	.09	.10	.04	.11	.09	.05	.07	.08
OAKLAND	58	.09	.05	.09	.27	.04	.03	.05	.07
RICHMOND	58	.02	.01	.02	.04	.02	.02	.04	.07
SACRAMENTO	58	.04	.02	.04	.05	.04	.03	.06	.09
SAN BERNARDINO	59	.17	.13	.09	.09	.07	.08	.07	.06
SAN DIEGO	58	.03	.03	.03	.07	.04	.03	.04	.08
SAN FRANCISCO	58	.03	.03	.01	.05	.05	.01	.01	.04
SAN JOSE	57	.02	.02	.03	.03	.02	.01	.01	.01
STOCKTON	58	.21	.40	.35	1.10	.39	.23	.27	.41
CONNECTICUT									
BRIDGEPORT	60	.26	.07	.07	.25				
HARTFORD	58	.05	.02	.02	.03	.03	.02	.02	.02
NEW BRITAIN	59	.40	.07	.07	.06	.10	.07	.06	.05
NEW HAVEN	58	.03	.01	.01	.04	.07	.06	.03	.03
STAMFORD	57	.12	.27	.22	.27	.04	.05	.07	.06
DELAWARE									
WILMINGTON	58	.14	.09	.14	.10	.06	.04	.07	.03
DIST OF COL									
WASHINGTON D C	58	.05	.24	.36	.08	.18	.12	.08	.08
FLORIDA									
JACKSONVILLE	58	.08	.30	.78	.55	.24	.07	.22	.44
MIAMI	59	.03	.03	.03	.02	.02	.02	.01	.01
ORLANDO	59	.55	.18	.17	.08	.09	.06	.09	.09
GEORGIA									
AUGUSTA	58	.02	.02	.02	.02	.03	.00	.00	.00
COLUMBUS	57	.01	.02	.03	.07	.02	.02	.02	.09
MACON	58	.03	.04	.02	.05	.05	.05	.03	.04
SAVANNAH	59	.03	.49	.04	.05	.05	.09	.02	.02
HAWAII									
HONOLULU	58	.15	.47	.11	.05	.12	.14	.14	.20
IDAHO									
BOISE	58	.02	.00	.01	.02	.02	.01	.10	.00
ILLINOIS									
PEORIA	58	.00	.02	.02	.03	.00	.02	.01	.03
ROCKFORD	59	.08	.07	.06	.03	.05	.05	.03	.04
INDIANA									
EAST CHICAGO	59	.11	.06	.16	.05	.18	.18	.06	.23
EVANSVILLE	60	.04	.05	.03	.05				
FORT WAYNE	60	.04	.05	.07	.08				
GARY	60	.37	.10	.10	.30				
HAMMOND	59	.34	.26	.53	.07	.09	.10	.08	.09
SOUTH BEND	59	.02	.03	.04	.07	.04	.04	.03	.02
TERRE HAUTE	58	.08	.07	.04	.02				
IOWA									
DAVENPORT	58	.08	.03	.03	.02	.03	.08	.03	.02
KANSAS									
KANSAS CITY	60	.04	.12	.31	.06				
TOPEKA	59	.04	.07	.04	.04	.05	.07	.01	.05
LOUISIANA									
BATON ROUGE	57	.02	.01	.04	.08	.00	.02	.02	.02
SHREVEPORT	59	.03	.04	.06	.07	.02	.05	.04	.03
MAINE									
PORTLAND	58	.06	.06	.03	.03	.05	.03	.04	.05

TABLE 2.25 — COPPER: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.02	.03	.02	.02	.03	.02	.01	.02
CAMBRIDGE	59	.06	.07	.10	.10	.06	.04	.04	.06
FALL RIVER	58	.07	.05	.04	.02	.06	.04	.02	.03
LAWRENCE	60	.06	.04	.07	.06				
LOWELL	59	.02	.03	.02	.01	.02	.03	.01	.01
LYNN	60	2.70	3.50	1.90	.22				
NEW BEDFORD	59	.02	.03	.06	.02	.05	.01	.03	.01
SOMERVILLE	60	.67	3.40	3.70	3.20				
SPRINGFIELD	60	.09	.15	.24	.20				
WORCESTER	57	.03	.02	.07	.06	.03	.02	.04	.02
MICHIGAN									
DEARBORN	59	.03	.04	.06	.07	.01	.05	.05	.03
FLINT	57	.08	.07	.10	.09	.05	.06	.05	.04
JACKSON	58	.03	.02	.02	.06	.03	.01	.05	.02
KALAMAZOO	60	.11	.12	.22	.30				
LANSING	57	.02	.05	.11	.06	.04	.05	.09	.12
SAGINAW	58	.05	.05	.06	.06	.07	.05	.04	.07
MINNESOTA									
DULUTH	57	.16	.05	.11	.11	.05	.02	.05	.02
MISSISSIPPI									
JACKSON	58	.02	.01	.04	.05	.02	.02	.02	.01
MISSOURI									
KANSAS CITY	58	.03	.05	.06	.05	.07	.07	.13	.16
MONTANA									
HELENA	58	.07	.04	.07	.04	.12	.02	.03	.08
NEBRASKA									
LINCOLN	60	.04	.03	.05	.06				
OMAHA	58	.01	.04	.06	.02	.07	.05	.04	.03
NEVADA									
LAS VEGAS	58	.05	.08	.08	.05	.05	.21	.08	.08
NEW JERSEY									
ATLANTIC CITY	58	.04	.03	.02	.03	.02	.02	.02	.03
EAST ORANGE	60	.66	.14	.05	.26				
ELIZABETH	58	.15	.48	.12	.34	.21	.36	.13	.08
JERSEY CITY	59	.23	.08	.20	.10	.23	.22	.07	.05
NEWARK	59	.25	.31	.05	.14	.05	.06	.06	.05
NEW MEXICO									
ALBUQUERQUE	58	.09	.05	.13	.09	.03	.05	.09	.13
NEW YORK									
BINGHAMTON	60	.54	.19	.20	.08				
ELMIRA	60	.07	.09	.04	.09				
NEW YORK CITY	60	.31	.31	.54	.20				
SCHENECTADY	60	.01	.08	.07	.06				
SYRACUSE	60	.06	.07	.08	.07				
UTICA	60	.23	.07	.07	.12				
NORTH CAROLINA									
GREENSBORO	58	.06	.01	.02	.04	.02	.06	.01	.02
RALEIGH	59	.06	.04	.04	.04	.04	.03	.02	.03
WINSTON SALEM	57	.25	.26	.20	.44	.15	.11	.16	.22
OHIO									
AKRON	60	.06	.04	.05	.16				
CANTON	59	.09	.26	.31	.23	.07	.09	.08	.09
CINCINNATI	58	.13	.10	.10	.12	.02	.03	.05	.07
COLUMBUS	58	.03	.05	.01	.03	.06	.04	.02	.02
HAMILTON	59	.08	.07	.04	.07	.03	.03	.03	.02
LORAIN	57	.08	.05	.09	.10	.06	.05	.04	.10
SPRINGFIELD	58	.05	.04	.02	.05	.03	.03	.04	.02
TOLEDO	57	.08	.06	.32	.24	.06	.04	.11	.08
YOUNGSTOWN	58	.04	.06	.06	.08	.03	.06	.06	.08
OKLAHOMA									
OKLAHOMA CITY	58	.04	.06	.04	.05	.03	.03	.05	.02

TABLE 2.25 — COPPER: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	.19	.18	.07	.06	.28	.09	.03	.05
HARRISBURG	58	.09	.10	.08	.12	.09	.07	.07	.10
JOHNSTOWN	59	.16	.12	.03	.03	.10	.12	.07	.02
READING	58	.21	.23	.10	.36	.05	.08	.10	.10
SCRANTON	57	.06	.05	.03	.05	.08	.04	.02	.05
WILKES BARRE	58	.02	.02	.02	.03	.01	.02	.01	.02
YORK	59	.03	.04	.03	.69	.02	.02	.04	.27
PUERTO RICO									
SAN JUAN	59	.02	.03	.04	.04	.02	.02	.02	.03
RHODE ISLAND									
PROVIDENCE	58	.06	.09	.07	.12	.06	.06	.03	.05
SOUTH CAROLINA									
CHARLESTON	59	.08	.08	.06	.03	.06	.04	.04	.00
COLUMBIA	57	.30	.10	.08	.12	.20	.06	.05	.14
GREENVILLE	57	.32	.24	.90	.15	.26	.26	.28	.24
SOUTH DAKOTA									
SIOUX FALLS	58	.03	.03	.02	.00	.05	.04	.05	.02
TENNESSEE									
CHATTANOOGA	58	.08	.05	.03	.10	.05	.06	.06	.11
KNOXVILLE	59	.08	.29	.25	.39	.06	.27	.27	.09
MEMPHIS	58	.02	.04	.04	.05	.03	.03	.04	.06
TEXAS									
AUSTIN	58	.08	.01	.02	.03	.04	.02	.04	.03
BEAUMONT	59	.06	.05	.04	.05	.07	.07	.04	.04
CORPUS CHRISTI	60	.04	.02	.02	.02				
DALLAS	58	.03	.03	.01	.00	.07	.04	.00	.09
EL PASO	57	.51	.34	.22	.55	.28	.08	.07	.48
FORT WORTH	58	.06	.07	.46	.15	.10	.05	.31	.06
GALVESTON	59	.00	.01	.02	.10	.02	.13	.02	.05
SAN ANTONIO	58	.09	.17	.09	.09	.05	.20	.09	.20
TEXAS CITY	59	.09	.77	.09	.08	.07	.55	.09	.14
WACO	58	.04	.04	.07	.02	.02	.07	.12	.03
VERMONT									
BURLINGTON	58	.02	.03	.02	.02	.00	.04	.01	.03
VIRGINIA									
DANVILLE	60	.03	.02	.20	.46				
HAMPTON	58	.03	.02	.03	.02	.08	.05	.05	.00
NORFOLK	58	.05	.25	.05	.04	.04	.06	.05	.05
RICHMOND	57	.10	.02	.11	.11	.02	.01	.03	.05
ROANOKE	59	.16	.06	.10	.60	.08	.04	.06	.11
WEST VIRGINIA									
CHARLESTON	58	.09	.41	.08	.34	.81	.09	.07	.07
HUNTINGTON	58	.06	.07	.03	.50	.03	.05	.00	.06
WHEELING	59	.53	.10	.08	.09	.10	.09	.08	.07
WISCONSIN									
MADISON	59	.03	.04	.03	.05	.02	.02	.01	.05
RACINE	60	.06	.10	.31	.05				

TABLE 2.26—IRON: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.5	.8	1.0	1.3	1.6	2.0	2.5	3.3	4.8	45.0	2.5	1.5	2.35
NEW ENGLAND	58	43	.2	.3	.5	.7	.9	1.1	1.3	1.6	1.8	2.8	11.0	1.5	1.0	2.26
MID ATLANTIC	58 60	45	.3	1.3	1.7	2.0	2.4	3.2	4.0	5.8	7.2	10.3	45.0	5.5	3.3	2.30
MID EAST	57 60	99	.5	.7	.9	1.1	1.4	1.7	2.0	2.5	3.0	4.3	19.0	2.4	1.6	2.02
SOUTH EAST	57 58	119	.3	.7	.8	1.0	1.2	1.6	2.1	2.7	3.5	5.8	40.0	3.2	1.7	2.32
MID WEST	57 60	172	.4	.8	1.1	1.4	1.7	2.1	2.4	3.0	3.9	5.3	30.0	2.9	2.0	2.07
GREAT PLAINS	58	123	.2	.6	.9	1.1	1.4	1.7	2.1	2.6	3.1	4.4	16.0	2.4	1.6	2.13
GULF SOUTH	58	50	.3	.4	.6	.8	.9	1.0	1.1	1.5	1.8	2.2	5.7	1.3	1.0	1.69
ROCKY MOUNTAIN	58	73		.3	.5	.5	.7	.9	1.2	1.6	1.9	2.7	6.5	1.2	.9	2.35
PACIFIC COAST	57 58	95		.4	.8	1.0	1.2	1.9	2.3	2.8	3.6	4.8	10.0	2.2	1.6	2.56
ALABAMA BIRMINGHAM	58	21	.5	.8	1.1	1.2	2.1	4.3	6.3	7.7	17.0	21.0	40.0	8.8	3.7	4.13
CALIFORNIA LOS ANGELES	58	21	.9	1.0	1.1	1.2	2.1	3.0	3.5	4.0	4.5	4.8	5.2	2.8	2.3	2.06
COLORADO DENVER	58	25	.3	.5	.8	1.2	1.4	1.8	2.0	2.4	2.7	3.5	6.5	1.9	1.5	2.06
FLORIDA TAMPA	58	26	.4	.5	.6	.7	.8	.9	1.1	1.3	1.5	1.7	2.9	1.1	.9	1.65
GEORGIA ATLANTA	58	20	.6	.7	1.0	1.2	1.8	2.3	2.4	2.9	3.1	5.8	12.0	2.8	1.9	2.15
ILLINOIS CHICAGO	58	21	.8	.8	1.2	1.5	2.4	3.0	3.3	3.6	5.3	5.8	10.4	3.3	2.4	2.20
INDIANA INDIANAPOLIS	58	24	1.0	1.0	1.2	1.4	1.7	2.0	2.3	2.9	3.0	3.9	4.2	2.1	1.9	1.72
IOWA DES MOINES	58	26	.5	1.3	1.5	2.1	2.3	2.6	2.9	3.2	4.3	5.8	15.0	3.5	2.6	1.75
KANSAS WICHITA	58	22	.6	.7	.8	1.2	1.3	1.6	1.7	1.9	2.3	2.8	9.2	1.9	1.4	1.72
LOUISIANA NEW ORLEANS	58	25	.3	.6	.7	.8	.9	1.0	1.2	1.7	1.9	2.1	2.2	1.2	1.1	1.70
MARYLAND BALTIMORE	57	24	1.1	1.2	1.4	1.8	2.2	2.4	2.5	2.7	2.9	5.0	13.0	2.8	2.2	1.63
	58	25	.5	.7	.9	1.2	1.5	1.7	1.8	2.3	2.6	4.3	5.5	2.0	1.6	1.93
	60	25	.7	.8	.9	1.1	1.2	1.7	2.1	3.2	3.5	7.7	19.0	3.0	1.8	2.38
	57 60	74	.5	.8	1.1	1.3	1.6	1.9	2.3	2.7	3.1	4.7	19.0	2.6	1.8	1.93
MASSACHUSETTS BOSTON	58	23	.8	1.0	1.2	1.3	1.5	1.7	1.8	2.1	2.4	3.7	11.0	2.3	1.7	1.59
MICHIGAN DETROIT	58	25	.5	.6	.8	1.2	1.4	1.8	2.1	2.3	2.8	4.3	6.5	2.0	1.8	2.08

TABLE 2.26 — IRON: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26	.2	.5	.6	.8	.9	1.1	1.4	1.5	2.6	3.7	4.9	1.5	1.1	2.17
MISSOURI																
ST LOUIS	58	24	1.1	1.2	1.5	1.7	2.3	2.5	2.8	3.2	4.0	4.8	16.0	3.2	2.4	1.72
NEW HAMPSHIRE																
MANCHESTER	58	20	.2	.2	.3	.4	.4	.5	.7	.8	.9	1.0	1.7	.6	.5	1.89
NORTH CAROLINA																
CHARLOTTE	58	25	.5	.6	.7	.9	1.0	1.2	1.4	1.7	2.1	4.3	11.0	1.8	1.2	2.02
NORTH DAKOTA																
BISMARCK	58	25	.4	.6	.7	.8	.9	1.1	1.2	1.8	2.6	3.2	10.0	1.9	1.2	1.98
OHIO																
CLEVELAND	58	25	.7	1.3	1.6	1.8	2.4	3.9	4.2	4.7	5.0	11.9	30.0	5.3	3.2	2.25
DAYTON	60	26	.4	.7	1.0	1.4	1.8	2.2	2.3	3.0	5.0	5.4	7.0	2.6	2.0	2.25
OREGON																
PORTLAND	58	25		.3	.4	.8	1.0	1.1	1.2	2.0	2.4	4.7	7.2	1.6	1.1	2.76
PENNSYLVANIA																
PHILADELPHIA	58	21	.3	1.1	1.3	1.5	2.0	2.3	2.5	2.8	4.3	6.7	12.0	3.0	2.3	1.97
PITTSBURGH	60	24	.9	1.7	2.0	3.0	3.9	4.3	5.8	7.7	8.5	19.6	45.0	7.6	4.7	2.47
TENNESSEE																
NASHVILLE	57	26	.7	.9	1.1	1.3	1.5	2.0	2.1	2.3	3.5	4.0	8.4	2.4	1.8	1.82
	58	26	.3	.7	.8	1.0	1.1	1.6	2.3	2.6	3.2	3.7	4.3	1.9	1.6	2.07
	57 58	52	.3	.8	.9	1.1	1.4	1.9	2.1	2.4	3.4	3.9	8.4	2.1	1.7	1.95
TEXAS																
HOUSTON	58	25	.3	.4	.5	.8	.9	1.0	1.1	1.3	1.7	3.2	5.7	1.4	1.0	2.07
UTAH																
SALT LAKE CITY	58	24	.5	.5	.6	.7	.9	1.1	1.2	1.6	1.8	2.1	4.4	1.3	1.0	1.81
WASHINGTON																
SEATTLE	57	25	.5	1.1	1.2	2.3	2.5	3.3	3.5	4.3	5.0	6.7	10.0	3.4	2.8	2.05
TACOMA	58	24		.2	.4	.5	.7	.8	1.2	1.9	2.0	2.6	3.2	1.2	.8	2.72
WISCONSIN																
MILWAUKEE	57	25	.6	.9	1.1	1.3	1.8	2.2	2.4	3.2	4.0	9.6	14.0	3.1	2.2	2.34
	58	26	.5	.8	.9	1.1	1.2	1.5	1.7	2.1	2.8	3.2	5.6	1.8	1.5	1.78
	57 58	51	.5	.8	1.0	1.1	1.4	1.8	2.2	2.6	3.2	4.3	14.0	2.5	1.7	1.96
WYOMING																
CHEYENNE	58	24		.1	.3	.3	.4	.5	.5	.6	.8	.9	1.7	.5	.4	2.10

TABLE 2.27 — IRON: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.9	2.8	2.3	2.7				
MONTGOMERY	59	6.2	7.9	1.6	2.3				
ALASKA									
ANCHORAGE	58	14.0	8.7	13.0	17.0				
ARIZONA									
PHOENIX	59	26.0	21.0	12.0	21.0				
TUCSON	60	3.1	5.8	1.4	17.0				
ARKANSAS									
LITTLE ROCK	58	2.8	1.1	1.6	2.4	3.9	1.2	1.4	1.8
CALIFORNIA									
BERKELEY	59	3.3	5.0	4.2	3.9	.6	1.8	2.2	3.1
BURBANK	60	3.1	4.8	2.7	10.0				
FRESNO	58	1.5	3.7	2.3	3.0	.5	1.9	.9	3.0
LONG BEACH	58	2.7	3.4	2.5	20.0	1.3	2.2	2.6	4.5
OAKLAND	58	2.4	1.8	2.4	6.4	1.4	.9	1.6	2.3
RICHMOND	58	.6	.8	1.4	2.4	.9	1.0	3.4	3.1
SACRAMENTO	58	.9	.5	2.9	2.8	.6	.7	4.1	4.3
SAN BERNARDINO	59	20.0	20.0	24.0	25.0	3.0	15.0	14.0	3.8
SAN DIEGO	58	1.2	.5	.3	2.7	.6	.7	.7	2.0
SAN FRANCISCO	58	2.5	1.4	.8	2.9	1.7	.5	.5	1.4
SAN JOSE	57	4.5	2.3	4.1	5.6	2.2	1.2	2.2	1.8
STOCKTON	58	.5	1.6	1.5	2.0				
CONNECTICUT									
BRIDGEPORT	60	3.2	1.3	3.5	3.0				
HARTFORD	58	1.3	1.0	.8	1.2	.7	.9	.6	.6
NEW BRITAIN	59	3.3	5.4	2.4	2.2	1.0	2.5	1.6	.9
NEW HAVEN	58	.7	.5	.5	1.0	.7	1.2	.7	.9
STAMFORD	57	2.2	12.0	9.7	9.6	1.2	1.9	2.6	1.1
DELAWARE									
WILMINGTON	58	14.0	13.0	14.0	2.6	3.1	3.3	2.9	1.5
DIST OF COL									
WASHINGTON D C	58	3.0	3.2	3.1	2.8	3.0	1.2	1.5	2.3
FLORIDA									
JACKSONVILLE	58	1.3	1.1	1.7	1.4	2.6	1.1	.9	1.0
MIAMI	59	3.1	1.5	1.9	1.0	.7	.6	.5	.5
ORLANDO	59	3.9	2.4	2.1	2.5	1.4	.6	1.2	1.5
GEORGIA									
AUGUSTA	58	1.1	2.7	1.1	3.1	.5	1.1	.8	1.7
COLUMBUS	57	1.5	2.5	3.2	3.9	2.5	1.7	3.1	5.1
MACON	58	1.7	2.4	1.1	4.8	1.9	1.6	1.9	2.9
SAVANNAH	59	1.6	5.6	3.5	3.3	.7	1.2	.9	.9
HAWAII									
HONOLULU	58	1.0	1.2	1.0	7.5	.6	.8	.4	.8
IDAHO									
BOISE	58	1.2	.9	1.1	2.5	1.1	1.1	1.3	.5
ILLINOIS									
PEORIA	58	1.1	3.0	4.3	2.4	1.6	1.8	1.9	2.4
ROCKFORD	59	5.6	20.0	2.6	.6				
INDIANA									
EAST CHICAGO	59	30.0	52.0	11.0	13.0	7.7	11.0	2.5	3.3
EVANSVILLE	60	3.0	6.4	3.6	4.1				
FORT WAYNE	60	1.6	2.5	5.8	4.0				
GARY	60	41.0	74.0	23.0	60.0				
HAMMOND	59	13.0	47.0	15.0	2.8	3.0	18.0	2.1	3.0
SOUTH BEND	59	1.3	4.0	3.5	4.5	1.0	4.5	2.4	.9
TERRE HAUTE	58	1.7	2.6	3.6	1.5				
IOWA									
DAVENPORT	58	17.0	2.8	2.8	.6	1.8	2.5	2.0	1.3
KANSAS									
KANSAS CITY	60	2.6	5.1	9.3	2.5				
TOPEKA	59	3.6	10.0	2.5	2.1	1.5	3.4	.7	1.6
LOUISIANA									
BATON ROUGE	57	3.4	1.3	2.4	5.8	.9	1.1	1.1	1.4
SHREVEPORT	59	9.6	21.0	15.0	22.0	1.6	5.8	5.7	5.7
MAINE									
PORTLAND	58	4.0	3.3	2.5	1.2	1.7	1.4	1.5	1.3

TABLE 2.27 — IRON: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.4	.5	.6	.4	.9	.5	.3	.8
CAMBRIDGE	59	3.2	4.2	3.5	2.1	1.6	1.3	1.2	1.3
FALL RIVER	58	2.8	1.0	.9	4.1	1.2	.6	.5	3.5
LAWRENCE	60	1.7	1.5	1.5	1.3				
LOWELL	59	1.3	2.8	2.6	2.8	.8	1.4	.6	.6
LYNN	60	2.2	.8	.9	3.3				
NEW BEDFORD	59	.9	2.0	2.1	.8	1.0	.4	.6	.4
QUINCY	58	1.5	2.1	1.9	1.2	.9	.8	.8	.8
SOMERVILLE	60	2.5	2.9	1.9	1.1				
SPRINGFIELD	60	1.5	2.6	4.0	.4				
WORCESTER	57	2.5	1.9	3.2	2.4	1.6	1.2	1.3	1.0
MICHIGAN									
DEARBORN	59	4.8	15.0	4.4	16.0	1.0	4.0	2.5	2.1
FLINT	57	11.0	11.0	11.0	9.2	1.8	3.0	2.4	1.7
JACKSON	58	.4	3.5	.6	1.6	.6	1.2	.8	.7
KALAMAZOO	60	3.3	4.4	3.3	3.8				
LANSING	57	2.0	3.3	2.6	1.9	2.0	3.3	3.5	1.7
SAGINAW	58	2.8	2.9	4.6	4.7	1.7	3.8	2.9	4.0
MINNESOTA									
DULUTH	57	26.0	3.1	22.0	12.0				
MISSISSIPPI									
JACKSON	58	2.0	1.4	4.6	10.0	1.0	1.2	2.4	1.5
MISSOURI									
KANSAS CITY	58	2.6	3.1	4.2	2.9				
MONTANA									
HELENA	58	3.7	3.4	12.0	1.9				
NEBRASKA									
LINCOLN	60	4.2	1.1	4.5	3.1				
OMAHA	58	1.5	1.2	1.6	1.0	2.3	2.0	1.0	1.3
NEVADA									
LAS VEGAS	58	10.0	1.4	1.3	3.4	2.9	1.6	1.1	2.0
NEW JERSEY									
ATLANTIC CITY	58	1.0	1.2	.6	.5	.4	.9	.6	.4
EAST ORANGE	60	6.7	1.1	2.5	5.4				
ELIZABETH	58	1.0	3.5	2.3	4.8				
JERSEY CITY	59	7.1	11.0	11.0	19.0	5.6	5.0	2.6	2.2
NEWARK	59	3.7	12.0	9.8	8.8	.8	1.8	1.9	1.7
NEW MEXICO									
ALBUQUERQUE	58	9.6	5.3	4.2	12.0	1.5	1.3	1.6	4.3
NEW YORK									
BINGHAMTON	60	6.1	7.8	4.6	4.1				
ELMIRA	60	3.9	20.0	1.9	8.7				
NEW YORK CITY	60	14.0	12.0	18.0	5.7				
SCHENECTADY	60	1.0	4.0	2.5	2.3				
SYRACUSE	60	3.9	13.0	17.0	14.0				
UTICA	60	1.2	2.8	1.2	6.0				
NORTH CAROLINA									
GREENSBORO	58	2.8	1.3	2.9	3.4	.9	2.6	.9	1.2
RALEIGH	59	4.1	2.2	3.1	2.7	1.6	1.2	1.1	1.0
WINSTON SALEM	57	14.0	2.6	2.6	1.9	3.2	1.9	1.8	1.2
OHIO									
AKRON	60	8.9	3.6	9.6	29.0				
CANTON	59	14.0	31.0	24.0	24.0	3.4	14.0	3.0	3.7
CINCINNATI	58	13.0	14.0	4.6	22.0				
COLUMBUS	58	1.6	3.3	1.9	1.7	2.7	3.1	2.0	2.2
HAMILTON	59	2.7	2.8	3.0	13.0	1.5	2.9	3.3	1.4
LORAIN	57	19.0	2.8	26.0	40.0	5.1	3.6	5.7	20.0
SPRINGFIELD	58	2.4	2.1	1.1	2.8	1.7	1.5	2.3	1.3
TOLEDO	57	10.0	9.4	23.0	28.0	2.2	1.2	3.6	4.2
YOUNGSTOWN	58	3.0	17.0	15.0	18.0	1.7	4.1	9.9	4.7
OKLAHOMA									
OKLAHOMA CITY	58	1.1	1.6	.6	1.1	.5	.8	1.0	.6

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	20.0	9.1	3.5	5.1				
HARRISBURG	58	7.1	5.6	3.1	5.7	2.1	1.9	1.1	2.1
JOHNSTOWN	59	33.0	44.0	2.8	4.4	6.0	14.0	3.4	1.7
READING	58	4.8	2.3	2.6	15.0	2.0	1.0	3.2	3.4
SCRANTON	57	4.2	15.0	3.9	15.0	1.2	2.2	2.0	2.6
WILKES BARRE	58	1.6	1.2	1.7	2.2	.7	.7	.8	.7
YORK	59	2.7	4.9	3.0	4.3	1.3	1.7	.8	1.3
PUERTO RICO									
SAN JUAN	59	1.5	2.0	3.2	1.9	1.1	1.4	1.6	1.0
RHODE ISLAND									
PROVIDENCE	58	2.0	4.4	1.8	2.8	1.6	1.5	2.1	2.1
SOUTH CAROLINA									
CHARLESTON	59	2.4	3.1	1.5	2.2	1.3	.6	1.1	.4
COLUMBIA	57	6.2	3.2	4.6	2.6	3.3	1.3	2.0	2.7
GREENVILLE	57	2.7	3.5	12.0	3.2	2.3	1.6	3.6	1.9
SOUTH DAKOTA									
SIOUX FALLS	58	.8	2.6	1.5	1.8	1.4	2.2	1.7	1.3
TENNESSEE									
CHATTANOOGA	58	11.0	2.0	2.7	6.3	2.0	2.1	2.3	6.7
KNOXVILLE	59	3.3	3.0	4.2	3.9	1.8	2.3	1.4	.9
MEMPHIS	58	.7	.8	1.7	1.5	.9	.8	1.5	.8
TEXAS									
AUSTIN	58	3.0	.6	.5	1.0	1.2	.8	.9	.6
BEAUMONT	59	4.0	2.1	1.2	1.3	.6	1.6	.6	.6
CORPUS CHRISTI	60	2.2	2.4	.8	.6				
DALLAS	58	1.7	2.5	1.8	.8				
EL PASO	57	15.0	48.0	4.4	6.7				
FORT WORTH	58	2.3	11.0	3.9	1.7	2.0	1.5	2.2	1.0
GALVESTON	59	.4	2.1	.8	2.2	.6	1.4	.5	1.5
SAN ANTONIO	58	20.0	1.4	1.8	8.0				
TEXAS CITY	59	1.1	1.1	2.1	1.8	.5	.8	.9	1.3
WACO	58	3.8	.9	.6	.6	.5	1.9	1.5	1.1
VERMONT									
BURLINGTON	58	.7	1.6	1.0	.5	.3	2.0	.6	.6
VIRGINIA									
DANVILLE	60	3.4	3.1	1.8	15.0				
HAMPTON	58	.7	1.0	1.9	.7	.6	.5	1.3	.0
NORFOLK	58	1.4	2.7	1.9	2.6	.9	1.0	1.1	1.7
RICHMOND	57	12.0	2.6	2.6	3.5	2.7	1.0	1.0	1.3
ROANOKE	59	19.0	6.4	9.1	29.0				
WEST VIRGINIA									
CHARLESTON	58	3.6	9.4	4.3	11.0	5.5	2.6	1.2	1.9
HUNTINGTON	58	3.2	1.4	1.3	1.4	1.1	1.1	.4	1.4
WHEELING	59	15.0	7.0	5.2	21.0	4.8	4.8	2.9	5.6
WISCONSIN									
MADISON	59	1.1	11.0	2.4	1.5	.3	1.7	1.1	1.0
RACINE	60	3.2	4.1	10.0	3.2				

TABLE 2.28 — LEAD: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819			.1	.2	.2	.3	.4	.5	.6	1.1	6.3	.5		
NEW ENGLAND	58	43			.1	.2	.3	.4	.5	.9	1.3	1.6	4.6	.7		
MID ATLANTIC	58 60	45		.1	.2	.2	.3	.4	.4	.5	.7	2.1	4.3	.6	.3	2.74
MID EAST	57 60	99		.1	.2	.3	.3	.4	.5	.6	.8	1.3	3.8	.6	.3	2.47
SOUTH EAST	57 58	119		.1	.1	.2	.2	.3	.3	.5	.6	1.3	5.9	.5	.2	2.67
MID WEST	57 60	172		.1	.2	.3	.3	.4	.4	.5	.7	1.1	6.1	.5	.3	2.26
GREAT PLAINS	58	123			.1	.1	.1	.2	.2	.3	.4	.5	2.4	.2		
GULF SOUTH	58	50			.1	.1	.2	.2	.3	.3	.4	.7	3.5	.4		
ROCKY MOUNTAIN	58	73				.1	.1	.1	.1	.2	.3	.5	3.6	.2		
PACIFIC COAST	57 58	95			.1	.2	.3	.4	.5	.6	.9	1.4	6.3	.7		
ALABAMA																
BIRMINGHAM	58	21		.1	.1	.2	.2	.5	.6	.7	2.4	3.3	5.9	1.1	.4	4.34
CALIFORNIA																
LOS ANGELES	58	21	.1	.2	.5	.6	.8	1.1	1.3	2.2	3.0	4.5	6.3	1.7	1.0	3.17
COLORADO																
DENVER	58	25	.1	.1	.1	.2	.2	.2	.3	.4	.5	.8	1.6	.3	.2	2.27
FLORIDA																
TAMPA	58	26		.1	.1	.1	.2	.2	.2	.3	.4	.5	.6	.2	.1	2.00
GEORGIA																
ATLANTA	58	20		.1	.1	.2	.3	.4	.6	1.0	1.3	2.0	2.8	.7	.4	3.61
ILLINOIS																
CHICAGO	58	21	.1	.2	.2	.3	.4	.6	.7	.8	.9	1.3	1.9	.6	.4	2.20
INDIANA																
INDIANAPOLIS	58	24	.1	.2	.3	.3	.4	.4	.4	.5	.6	1.0	2.8	.5	.4	1.70
IOWA																
DES MOINES	58	26			.1	.1	.1	.2	.2	.2	.3	.4	1.1	.2		
KANSAS																
WICHITA	58	22	.1		.1	.1	.2	.2	.2	.3	.4	.5	1.1	.2		
LOUISIANA																
NEW ORLEANS	58	25		.1	.1	.1	.2	.2	.3	.3	.4	.6	1.0	.3	.2	2.13
MARYLAND																
BALTIMORE	57	24	.3	.4	.5	.6	.7	.7	.8	.9	1.0	1.8	3.2	.9	.7	1.65
	58	25	.1	.2	.2	.3	.3	.4	.4	.5	.6	.9	2.2	.5	.3	1.79
	60	25	.2	.2	.2	.3	.3	.4	.5	.7	.9	1.6	3.8	.7	.4	2.28
	57 60	74	.1	.2	.3	.3	.4	.5	.6	.7	.9	1.7	3.6	.7	.5	2.16
MASSACHUSETTS																
BOSTON	58	23	.1	.2	.3	.5	.6	.9	1.2	1.3	1.5	2.6	4.6	1.1	.7	3.23
MICHIGAN																
DETROIT	58	25		.2	.2	.3	.3	.3	.4	.4	.5	.7	1.7	.4	.3	1.60

TABLE 2.28 — LEAD: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26				.1	.1	.1	.1	.2	.3	.4	.7	.1		
MISSOURI																
ST LOUIS	58	24		.1	.2	.2	.3	.3	.4	.4	.5	.7	2.4	.4	.3	1.96
NEW HAMPSHIRE																
MANCHESTER	58	20				.1	.1	.1	.2	.4	.5	.6	1.6	.3		
NORTH CAROLINA																
CHARLOTTE	58	25		.1	.1	.1	.2	.2	.3	.3	.4	.7	2.1	.3	.2	2.21
NORTH DAKOTA																
BISMARCK	58	25				.1	.1	.1	.1	.2	.3	.4	.8	.1		
OHIO																
CLEVELAND	58	25	.1	.1	.2	.3	.3	.4	.5	.7	1.1	1.6	2.4	.6	.4	2.76
DAYTON	60	26		.1	.2	.2	.3	.5	.6	.7	.8	.8	1.3	.5	.3	2.34
OREGON																
PORTLAND	58	25			.1	.1	.2	.3	.3	.4	.5	1.1	2.3	.4		
PENNSYLVANIA																
PHILADELPHIA	58	21			.1	.2	.4	.5	.5	.6	.8	2.2	4.3	.8	.4	3.07
PITTSBURGH	60	24		.1	.2	.2	.3	.3	.3	.4	.5	1.0	2.4	.5	.3	2.17
TENNESSEE																
NASHVILLE	57	26	.1	.1	.2	.2	.2	.3	.3	.4	.4	.5	2.3	.4	.2	1.76
	58	26		.1	.1	.1	.2	.3	.4	.5	.6	.8	1.6	.4	.2	2.50
	57 58	52		.1	.1	.2	.2	.3	.3	.4	.5	.7	2.3	.4	.2	2.20
TEXAS																
HOUSTON	58	25	.1	.1	.1	.1	.2	.2	.3	.4	.4	.9	3.5	.5	.2	2.41
UTAH																
SALT LAKE CITY	58	24				.1	.1	.1	.2	.2	.3	.4	.8	.2		
WASHINGTON																
SEATTLE	57	25	.1	.2	.3	.4	.4	.5	.5	.7	.8	1.2	1.8	.6	.4	1.88
TACOMA	58	24			.1	.1	.1	.2	.3	.3	.4	.5	.8	.2		
WISCONSIN																
MILWAUKEE	57	25	.2	.2	.3	.3	.4	.5	.5	.6	.8	1.6	6.1	.8	.4	2.04
	58	26		.1	.1	.2	.2	.3	.3	.3	.4	.4	.8	.3	.2	1.81
	57 58	51		.1	.2	.2	.3	.3	.4	.5	.6	.8	6.1	.5	.3	2.13
WYOMING																
CHEYENNE	58	24						.1	.1	.1	.1	.1	3.6	.1		

TABLE 2.29—LEAD: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	1.4	.4	.5	2.2	1.4	.7	.7	2.1
MONTGOMERY	59	.4	.5	.2	.4				
ALASKA									
ANCHORAGE	58	.5	.1	.2	.6	.4	.5	.2	.4
ARIZONA									
PHOENIX	59	5.4	.8	1.3	2.6	.9	.2	1.1	1.2
ARKANSAS									
LITTLE ROCK	58	2.0	.1	.2	.9				
CALIFORNIA									
BURBANK	60	4.3	1.9	1.2	6.1				
FRESNO	58	.5	.3	.5	1.7	.3	.2	.2	.7
GLENDALE	59	6.5	5.3	3.3	.8	1.6	2.0	3.2	2.4
LONG BEACH	58	.8	.8	.2	1.8	1.1	.6	.6	2.4
OAKLAND	58	2.4	1.8	3.1	4.7	.8	.5	.6	.8
RICHMOND	58	.3	.1	.3	.8	.4	.1	.3	1.1
SAN BERNARDINO	59	1.2	1.6	.7	3.2	.4	.6	1.9	2.5
SAN FRANCISCO	58	1.6	.4	.5	2.3	.7	.2	.2	1.2
SAN JOSE	57	1.5	.3	.7	2.5	.4	.3	.5	1.3
STOCKTON	58	.2	.2	.4	.8				
CONNECTICUT									
BRIDGEPORT	60	.6	.6	.6	2.8				
HARTFORD	58	.5	.2	.2	1.2	.7	.5	.3	.4
NEW BRITAIN	59	3.3	.4	.3	1.7	.5	.5	.3	.5
NEW HAVEN	58	.3	.2	.1	1.0	.4	.4	.3	.4
STAMFORD	57	2.6	1.6	1.1	3.2	.6	.4	.5	.8
DELAWARE									
WILMINGTON	58	2.4	1.0	1.5	.6	.6	.5	.4	.7
DIST OF COL									
WASHINGTON D C	58	1.4	.4	1.3	1.6	.5	.3	.5	1.0
FLORIDA									
JACKSONVILLE	58	.6	.4	.2	.5	.7	.4	.4	1.4
MIAMI	59	.6	.3	.4	.2	.4	.3	.3	.4
ORLANDO	59	1.7	.4	.3	.6	.3	.2	.4	.4
GEORGIA									
AUGUSTA	58	.3	.4	.2	.8	.2	.2	.2	.5
COLUMBUS	57	.7	.5	.8	1.6	.5	.7	.6	1.4
MACON	58	.4	1.5	.6	2.3	.6	.4	.4	.9
SAVANNAH	59	.7	.7	.3	1.3	.2	.3	.3	.2
HAWAII									
HONOLULU	58	.9	1.1	.9	1.7	.5	.3	.2	.5
IDAHO									
BOISE	58	.4	.2	.4	.2	.2	.2	.3	.3
ILLINOIS									
PEORIA	56	.3	.4	.7	.4	.5	.3	.4	.8
ROCKFORD	59	.5	.5	.2	.2	.2	.2	.2	.2
INDIANA									
EAST CHICAGO	59	1.2	.6	.3	.4	.6	.3	.1	.4
EVANSVILLE	60	.4	.3	.3	.8				
FORT WAYNE	60	1.0	.3	.8	.7				
GARY	60	3.4	.7	.8	3.3				
HAMMOND	59	1.1	2.0	2.3	.6	.2	.6	.3	.5
SOUTH BEND	59	.3	.3	.2	.6	.2	.7	.6	.4
TERRE HAUTE	58	.4	.4	.5	.6				
IOWA									
DAVENPORT	58	.5	.4	.3	.3				
KANSAS									
KANSAS CITY	60	.2	.3	1.1	.3				
TOPEKA	59	.2	.5	.2	.4	.2	.2	.1	.3
LOUISIANA									
BATON ROUGE	57	.7	.5	.5	1.3	.4	.8	.5	.9
SHREVEPORT	59	.1	1.4	.1	1.7	.1	.6	.4	.9
MAINE									
PORTLAND	58	.7	.7	.4	.5	.4	.2	.4	.6

TABLE 2.29—LEAD: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE—Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.1	.0	.3	.6	.3	.2	.2	.7
CAMBRIDGE	59	1.1	2.5	.5	3.5	.6	.5	.3	.8
FALL RIVER	58	.8	.5	.2	.4	.4	.3	.2	.3
LAWRENCE	60	.8	.4	.6	1.1				
LOWELL	59	.5	.6	1.5	.7	.3	.3	.2	.3
LYNN	60	.5	.4	.2	.8				
NEW BEDFORD	59	.5	.4	.3	.9	.2	.2	.4	.6
SOMERVILLE	60	.4	1.8	.7	.1				
WORCESTER	57	.5	.5	.3	1.5	.4	.5	.4	.6
MICHIGAN									
DEARBORN	59	.4	1.8	.4	2.8	.2	.9	.8	1.2
FLINT	57	2.3	1.4	.4	1.5	.4	.7	.5	.3
KALAMAZOO	60	.7	.3	.5	.5				
LANSING	57	.4	.5	.3	.6	.4	.4	.7	.5
SAGINAW	58	.2	.2	.7	.3	.4	.4	.4	.5
MINNESOTA									
DULUTH	57	1.8	.3	.8	.4	.3	.4	.6	.5
MISSISSIPPI									
JACKSON	58	.6	.4	.6	1.2	.4	.4	.5	.5
MISSOURI									
KANSAS CITY	58	.5	.8	1.7	.7	.9	.6	1.8	1.3
NEBRASKA									
LINCOLN	60	.3	.1	.5	.2				
OMAHA	58	.2	.4	1.1	.4	.6	.5	.4	.3
NEW JERSEY									
ATLANTIC CITY	58	.1	.0	.0	.0	.1	.0	.1	.2
EAST ORANGE	60	3.6	.4	.2	1.8				
ELIZABETH	58	.4	1.6	.2	.7	.7	2.8	.4	.6
JERSEY CITY	59	1.8	1.3	1.0	1.1	1.3	1.9	.6	1.5
NEWARK	59	1.8	2.5	1.0	5.1	.4	.8	.5	1.5
NEW MEXICO									
ALBUQUERQUE	58	2.7	.7	.4	2.0	.4	.8	.4	1.5
NEW YORK									
BINGHAMTON	60	1.3	.4	1.2	2.7				
ELMIRA	60	.7	1.3	.1	3.7				
NEW YORK CITY	60	3.1	2.0	2.0	1.6				
SCHENECTADY	60	.4	.4	1.4	.6				
SYRACUSE	60	.4	.4	1.4	1.1				
UTICA	60	.3	.2	.2	.6				
NORTH CAROLINA									
GREENSBORO	58	.3	.0	.1	.1	.4	.6	.2	.7
RALEIGH	59	.8	.4	.3	.4	.3	.2	.2	.3
WINSTON SALEM	57	1.4	.2	.3	.3	.5	.4	.4	.2
OHIO									
AKRON	60	.7	.6	1.0	4.0				
CANTON	59	1.6	1.8	1.7	2.1	.4	.5	.4	.3
CINCINNATI	58	1.7	2.1	1.6	3.2	.3	.3	.4	.6
COLUMBUS	58	.3	.4	.2	.6	.6	.9	.7	.8
HAMILTON	59	1.2	.3	.3	2.0	.5	.3	.5	.5
LORAIN	57	.5	.2	.5	.9				
SPRINGFIELD	58	.4	.3	.3	.3	.3	.4	.5	.2
TOLEDO	57	1.4	.5	2.2	.7	.5	.3	1.4	1.6
YOUNGSTOWN	58	.3	.7	.5	.4	.4	.4	.8	.6
OKLAHOMA									
OKLAHOMA CITY	58	.2	.3	.2	.2	.2	.2	.2	.1
PENNSYLVANIA									
ALLENTOWN	59	1.7	1.1	.7	1.6	.3	.8	.9	1.7
HARRISBURG	58	.8	1.3	.2	.8	.6	.3	.1	.5
JOHNSTOWN	59	2.2	2.1	.4	.8	.5	1.2	.4	.2
READING	58	.3	.2	.3	2.3	.4	.3	.3	1.8
SCRANTON	57	.6	1.4	1.6	4.5	.4	.5	.4	.9
WILKES BARRE	58	1.8	.3	.3	.4	.2	.2	.2	.2
YORK	59	1.1	.8	.6	.7	.4	.5	.3	.3
PUERTO RICO									
SAN JUAN	59	.2	.1	.3	.4	.1	.1	.2	.2
RHODE ISLAND									
PROVIDENCE	58	2.8	1.0	.8	1.8	.9	.6	.7	1.5

TABLE 229—LEAD URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE—Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
SOUTH CAROLINA									
CHARLESTON	59	.4	.4	.2	.4	.6	.1	.3	.3
COLUMBIA	57	2.1	1.5	1.7	3.4	1.1	.4	.6	1.6
GREENVILLE	57	1.1	.8	2.0	.4				
SOUTH DAKOTA									
SIOUX FALLS	58	.1	.2	.2	.2	.2	.3	.5	.3
TENNESSEE									
CHATTANOOGA	58	1.3	.2	1.3	1.6	.6	.6	.6	1.4
KNOXVILLE	59	.4	.5	1.3	2.6				
MEMPHIS	58	.6	.4	2.0	.6	.7	.5	.6	.6
TEXAS									
AUSTIN	58	1.[illegible]	.2	.2	.2	.3	.2	.3	.3
CORPUS CHRISTI	60	.4	.1	.2	.1				
DALLAS	58	.5	1.6	.6	.5	.4	1.3	.3	1.1
EL PASO	57	3.1	1.5	.5	2.0	.9	.3	.5	2.0
FORT WORTH	58	.3	1.1	.5	.3	1.0	.4	.4	.3
GALVESTON	59	.1	.2	.3	.6	.1	.1	.2	.2
SAN ANTONIO	58	.5	.3	.3	.4	.3	.3	.3	.7
VERMONT									
BURLINGTON	58	.1	.3	.1	.1	.2	.2	.1	.1
VIRGINIA									
DANVILLE	60	.3	.3	.3	2.6				
NORFOLK	58	.5	1.1	.2	.3	.4	.3	.3	.3
RICHMOND	57	1.1	.2	.3	.4	.6	.2	.4	.6
ROANOKE	59	3.3	2.0	1.4	5.0				
WEST VIRGINIA									
CHARLESTON	58	2.3	1.1	.5	2.6	.7	.2	.2	.6
HUNTINGTON	58	.4	.2	.2	.9	.2	.3	.1	.4
WHEELING	59	.7	.9	.8	2.0	.2	.4	.4	.4
WISCONSIN									
MADISON	59	.4	.4	.6	.4	.1	.2	.3	.2
RACINE	60	.6	.4	1.4	1.3				

TABLE 2.30—MANGANESE: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.01	.02	.03	.04	.05	.06	.08	.11	.18	2.60	.10	.04	2.86
NEW ENGLAND	58	43			.01	.01	.01	.02	.03	.03	.05	.06	.10	.02		
MID ATLANTIC	58 60	45	.02	.04	.05	.09	.10	.12	.16	.19	.32	.41	2.20	.25	.12	2.52
MID EAST	57 60	99		.02	.03	.04	.04	.05	.06	.08	.12	.17	1.50	.11	.05	2.22
SOUTH EAST	57 58	119		.01	.02	.03	.03	.04	.06	.07	.10	.17	1.60	.11	.04	2.79
MID WEST	57 60	172		.02	.03	.04	.05	.08	.10	.12	.15	.25	2.60	.14	.07	2.66
GREAT PLAINS	58	123		.02	.02	.03	.04	.05	.06	.06	.08	.11	.19	.05	.04	2.01
GULF SOUTH	58	50		.01	.01	.02	.02	.03	.04	.05	.08	.19	.88	.07	.03	3.10
ROCKY MOUNTAIN	58	73			.01	.01	.02	.02	.03	.05	.07	.12	.30	.04		
PACIFIC COAST	57 58	95		.01	.02	.03	.04	.05	.06	.07	.11	.17	.73	.07	.04	2.79
ALABAMA BIRMINGHAM	58	21		.02	.03	.04	.07	.10	.17	.49	.67	.76	1.60	.31	.12	5.02
CALIFORNIA LOS ANGELES	58	21	.02	.02	.03	.03	.04	.05	.05	.06	.06	.07	.15	.05	.04	1.61
COLORADO DENVER	58	25		.01	.02	.04	.05	.06	.07	.10	.12	.15	.30	.07	.05	2.75
FLORIDA TAMPA	58	26			.01	.01	.01	.02	.02	.03	.03	.04	.05	.02		
GEORGIA ATLANTA	58	20		.01	.02	.03	.04	.06	.09	.13	.16	.19	1.30	.17	.05	3.28
ILLINOIS CHICAGO	58	21		.02	.03	.03	.04	.09	.11	.12	.14	.18	.55	.10	.06	2.54
INDIANA INDIANAPOLIS	58	24	.02	.02	.03	.04	.05	.05	.06	.09	.10	.13	.14	.07	.05	2.03
IOWA DES MOINES	58	26		.04	.05	.05	.06	.06	.07	.08	.12	.13	.18	.07	.06	1.59
KANSAS WICHITA	58	22		.01	.02	.02	.03	.03	.03	.04	.05	.08	.09	.04	.02	2.00
LOUISIANA NEW ORLEANS	58	25		.01	.01	.02	.02	.02	.03	.03	.04	.05	.06	.03	.02	1.91
MARYLAND BALTIMORE	57	24	.04	.04	.05	.05	.06	.08	.09	.15	.16	.22	.33	.11	.08	2.02
	58	25	.02	.03	.03	.03	.04	.05	.07	.09	.11	.22	1.50	.13	.05	2.22
	60	25	.02	.03	.04	.05	.05	.06	.07	.10	.11	.67	1.10	.15	.07	2.62
	57 60	74	.02	.03	.04	.04	.05	.06	.08	.10	.15	.22	1.50	.13	.06	2.15
MASSACHUSETTS BOSTON	58	23		.01	.02	.02	.03	.03	.04	.05	.05	.06	.08	.03	.03	1.94
MICHIGAN DETROIT	58	25		.03	.04	.05	.08	.10	.12	.15	.17	.22	.88	.13	.08	2.25

TABLE 2.30 — MANGANESE: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26		.02	.02	.03	.03	.04	.05	.06	.07	.08	.17	.04	.03	1.83
MISSOURI																
ST LOUIS	58	24	.03	.03	.05	.05	.06	.07	.07	.09	.10	.15	.19	.08	.06	1.72
NEW HAMPSHIRE																
MANCHESTER	58	20				.01	.01	.01	.01	.02	.03	.04	.10	.01		
NORTH CAROLINA																
CHARLOTTE	58	25		.01	.02	.02	.02	.03	.04	.05	.06	.10	.21	.04	.03	2.29
NORTH DAKOTA																
BISMARCK	58	25		.02	.02	.03	.03	.03	.04	.05	.06	.09	.13	.04	.03	1.79
OHIO																
CLEVELAND	58	25	.03	.06	.06	.10	.12	.15	.17	.32	.52	.81	2.60	.35	.17	2.91
DAYTON	60	26	.02	.02	.04	.07	.09	.09	.10	.11	.16	.19	.49	.12	.08	2.20
OREGON																
PORTLAND	58	25		.01	.01	.04	.04	.06	.09	.16	.19	.25	.73	.12	.05	3.97
PENNSYLVANIA																
PHILADELPHIA	58	21	.02	.02	.03	.04	.05	.08	.09	.12	.17	.22	.38	.11	.06	2.61
PITTSBURGH	60	24	.06	.08	.11	.12	.15	.17	.19	.32	.36	.86	2.20	.38	.19	2.32
TENNESSEE																
NASHVILLE	57	26	.03	.02	.03	.03	.04	.06	.07	.07	.09	.09	.21	.06	.04	1.87
	58	26		.02	.02	.04	.04	.05	.06	.07	.09	.09	.17	.06	.04	1.93
	57 58	52		.02	.03	.03	.04	.05	.06	.07	.09	.11	.21	.06	.04	1.95
TEXAS																
HOUSTON	58	25		.01	.02	.03	.04	.06	.08	.12	.19	.41	.66	.12	.06	3.96
UTAH																
SALT LAKE CITY	58	24		.01	.01	.02	.02	.03	.03	.05	.08	.10	.13	.04	.02	2.63
WASHINGTON																
SEATTLE	57	25		.02	.03	.04	.04	.05	.06	.08	.13	.19	.24	.07	.05	2.31
TACOMA	58	24		.01	.01	.02	.03	.04	.05	.07	.10	.12	.17	.05	.03	2.95
WISCONSIN																
MILWAUKEE	57	25		.01	.02	.03	.03	.05	.06	.07	.10	.25	.55	.09	.04	3.05
	58	26		.01	.01	.03	.03	.05	.06	.07	.14	.17	1.00	.11	.04	3.27
	57 58	51		.01	.01	.03	.03	.05	.06	.07	.11	.22	1.00	.10	.04	3.34
WYOMING																
CHEYENNE	58	24					.01	.01	.01	.01	.02	.03	.05	.01		

TABLE 2.31 — MANGANESE: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.03	.10	.08	.09	.05	.14	.04	.15
MONTGOMERY	59	.09	.13	.03	.05	.02	.11	.04	.03
ALASKA									
ANCHORAGE	58	.33	.09	.35	.41	.03	.12	.04	.07
ARIZONA									
PHOENIX	59	.49	.42	.24	.44	.37	.07	.11	.12
TUCSON	60	.08	.13	.06	.21				
ARKANSAS									
LITTLE ROCK	58	.08	.06	.04	.06	.06	.04	.03	.04
CALIFORNIA									
BERKELEY	59	.15	.12	.17	.18	.04	.05	.05	.08
BURBANK	60	.05	.06	.06	.10				
FRESNO	58	.03	.06	.05	.08	.02	.05	.03	.10
GLENDALE	59	.08	.14	.12	.76	.07	.05	.09	.12
LONG BEACH	58	.09	.06	.05	.33	.03	.05	.06	.11
OAKLAND	58	.18	.04	.22	2.70	.08	.03	.10	.49
RICHMOND	58	.03	.03	.04	.07	.03	.02	.05	.06
SACRAMENTO	58	.06	.03	.10	.13	.02	.02	.08	.11
SAN BERNARDINO	59	.40	.35	.49	.44	.10	.39	.40	.12
SAN DIEGO	58	.02	.02	.00	.07	.02	.02	.02	.03
SAN FRANCISCO	58	.06	.04	.03	.09	.04	.02	.02	.03
SAN JOSE	57	.13	.05	.10	.09	.07	.05	.07	.05
STOCKTON	58	.02	.05	.05	.06	.02	.04	.05	.07
CONNECTICUT									
BRIDGEPORT	60	.10	.03	.10	.10				
HARTFORD	58	.04	.04	.00	.05	.04	.04	.02	.03
NEW BRITAIN	59	.17	.11	.06	.06	.04	.06	.04	.05
NEW HAVEN	58	.04	.02	.00	.06	.05	.04	.03	.04
STAMFORD	57	.06	.39	.10	.11	.04	.07	.06	.03
DELAWARE									
WILMINGTON	58	.15	.15	.11	.05	.08	.08	.09	.07
DIST OF COL									
WASHINGTON D C	58	.06	.06	.04	.08	.09	.05	.04	.07
FLORIDA									
JACKSONVILLE	58	.06	.05	.07	.07	.05	.03	.05	.03
MIAMI	59	.05	.03	.03	.04	.02	.00	.00	.02
ORLANDO	59	.07	.03	.03	.05	.03	.00	.02	.04
GEORGIA									
AUGUSTA	58	.04	.07	.03	.09	.02	.03	.02	.03
COLUMBUS	57	.06	.08	.08	.11	.09	.05	.06	.07
MACON	58	.05	.06	.03	.13	.05	.04	.04	.07
SAVANNAH	59	.04	.08	.04	.05	.02	.03	.02	.03
HAWAII									
HONOLULU	58	.03	.03	.00	.14	.03	.03	.02	.03
IDAHO									
BOISE	58	.05	.05	.05	.09	.03	.04	.05	.03
ILLINOIS									
PEORIA	58	.09	.11	.18	.11	.08	.08	.08	.16
ROCKFORD	59	.10	.41	.07	.02	.07	.12	.09	.06
INDIANA									
EAST CHICAGO	59	.92	1.70	.26	.53	.36	.23	.13	.17
EVANSVILLE	60	.10	.15	.06	.07				
FORT WAYNE	60	.04	.05	.12	.13				
GARY	60	2.20	3.10	2.00	3.00				
HAMMOND	59	.78	1.80	.07	.65	.16	.06	.15	.15
SOUTH BEND	59	.07	.53	.72	.27	.04	.18	.10	.04
TERRE HAUTE	58	.06	.07	.08	.04				
IOWA									
DAVENPORT	58	.46	.37	.19	.05	.12	.18	.13	.06
KANSAS									
KANSAS CITY	60	.05	.10	.18	.07				
TOPEKA	59	.09	.17	.07	.09	.05	.09	.03	.05
LOUISIANA									
BATON ROUGE	57	.17	.08	.10	.23	.06	.07	.07	.09
SHREVEPORT	59	.10	.10	.09	.16	.04	.05	.08	.07
MAINE									
PORTLAND	58	.06	.06	.05	.05	.06	.04	.05	.04

TABLE 2.31 — MANGANESE: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.00	.00	.03	.02	.03	.03	.00	.04
CAMBRIDGE	59	.07	.12	.09	.07	.03	.03	.02	.03
FALL RIVER	58	.07	.02	.00	.09	.04	.02	.00	.06
LAWRENCE	60	.06	.03	.03	.07				
LOWELL	59	.13	.08	.12	.06	.04	.04	.02	.02
LYNN	60	.07	.02	.03	.09				
NEW BEDFORD	59	.03	.03	.04	.04	.03	.00	.01	.00
QUINCY	58	.04	.05	.04	.00	.03	.04	.04	.03
SOMERVILLE	60	.06	.11	.04	.05				
SPRINGFIELD	60	.05	.08	.08	.08				
WORCESTER	57	.14	.07	.12	.18	.08	.06	.05	.04
MICHIGAN									
DEARBORN	59	.47	.67	.48	.88	.06	.20	.15	.13
FLINT	57	.16	.23	.21	.16	.06	.08	.07	.06
JACKSON	58	.03	.12	.04	.07	.03	.05	.04	.04
KALAMAZOO	60	.27	.20	.09	.07				
LANSING	57	.08	.16	.09	.05	.05	.09	.06	.03
SAGINAW	58	.94	.11	.34	.41	.11	.11	.11	.14
MINNESOTA									
DULUTH	57	.53	.05	.46	.16	.07	.03	.07	.07
MISSISSIPPI									
JACKSON	58	.07	.10	.39	.79	.05	.05	.11	.13
MISSOURI									
KANSAS CITY	58	.10	.17	.18	.11	.10	.09	.17	.08
MONTANA									
HELENA	58	.11	.10	.16	.05	.15	.03	.03	.02
NEBRASKA									
LINCOLN	60	.09	.04	.08	.05				
OMAHA	58	.11	.06	.05	.05	.06	.07	.05	.06
NEVADA									
LAS VEGAS	58	.14	.05	.07	.08	.12	.05	.07	.06
NEW JERSEY									
ATLANTIC CITY	58	.03	.05	.00	.03	.03	.02	.02	.03
EAST ORANGE	60	.14	.03	.04	.13				
ELIZABETH	58	.02	.07	.04	.14	.03	.15	.06	.06
JERSEY CITY	59	.20	.21	.15	.09	.13	.10	.06	.06
NEWARK	59	.13	.01	.06	.17	.04	.05	.03	.03
NEW MEXICO									
ALBUQUERQUE	58	.14	.20	.13	.15	.06	.05	.04	.14
NEW YORK									
BINGHAMTON	60	.10	.14	.08	.07				
ELMIRA	60	.05	.87	.08	.29				
NEW YORK CITY	60	.09	.08	.17	.06				
SCHENECTADY	60	.03	.08	.19	.08				
SYRACUSE	60	.45	.18	.17	.28				
UTICA	60	.11	.07	.09	.13				
NORTH CAROLINA									
GREENSBORO	58	.06	.03	.04	.07	.03	.05	.02	.03
RALEIGH	59	.05	.05	.05	.03	.03	.03	.02	.02
WINSTON SALEM	57	.12	.06	.05	.08	.05	.04	.04	.04
OHIO									
AKRON	60	.40	.11	.21	.91				
CANTON	59	.65	2.20	.85	.88	.51	1.10	.51	.77
CINCINNATI	58	.85	1.40	.93	1.70	.07	.17	.17	.72
COLUMBUS	58	.06	.17	.05	.04	.06	.09	.05	.08
HAMILTON	59	.12	.36	.32	.54	.07	.11	.11	.07
LORAIN	57	.40	.11	.58	1.30	.14	.14	.14	.82
SPRINGFIELD	58	.07	.06	.06	.08	.11	.10	.07	.06
TOLEDO	57	.15	.12	.55	.78	.09	.05	.10	.17
YOUNGSTOWN	58	.18	1.00	.60	.96	.14	.21	.22	.28
OKLAHOMA									
OKLAHOMA CITY	58	.04	.05	.03	.04	.03	.03	.05	.03

TABLE 2.31 — MANGANESE: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	.83	.72	.16	.14	.12	.19	.06	.20
HARRISBURG	58	.36	.49	.09	.19	.15	.14	.06	.15
JOHNSTOWN	59	7.80	5.70	.20	.20	3.10	5.40	.92	.36
READING	58	.36	.06	.09	1.30	.12	.04	.17	.58
SCRANTON	57	.11	.49	.14	.29	.06	.08	.08	.12
WILKES BARRE	58	.05	.04	.04	.08	.05	.03	.04	.04
YORK	59	1.10	.23	.11	.11	.10	.13	.03	.05
PUERTO RICO									
SAN JUAN	59	.04	.06	.08	.05	.03	.04	.04	.03
RHODE ISLAND									
PROVIDENCE	58	.04	.09	.05	.10	.05	.03	.03	.07
SOUTH CAROLINA									
CHARLESTON	59	.06	.04	.02	.03	.05	.00	.02	.00
COLUMBIA	57	.08	.07	.10	.06	.06	.03	.05	.06
GREENVILLE	57	.07	.05	.17	.07	.05	.04	.07	.04
SOUTH DAKOTA									
SIOUX FALLS	58	.13	.41	.14	.17	.16	.16	.14	.10
TENNESSEE									
CHATTANOOGA	58	.45	.11	.12	.69	.07	.08	.17	.75
KNOXVILLE	59	.05	.09	.63	.16	.14	.70	.73	.15
MEMPHIS	58	.05	.03	.06	.09	.05	.05	.06	.07
TEXAS									
AUSTIN	58	.06	.03	.02	.04	.04	.04	.04	.03
BEAUMONT	59	.08	.05	.06	.04	.03	.04	.03	.03
CORPUS CHRISTI	60	.04	.05	.04	.02				
DALLAS	58	.07	.08	.07	.04	.07	.09	.04	.16
EL PASO	57	.39	1.10	.09	.16	.09	.10	.08	.13
FORT WORTH	58	.07	.31	.51	.05	.05	.04	.06	.04
GALVESTON	59	.02	.09	.03	.07	.02	.04	.02	.05
SAN ANTONIO	58	.44	.05	.06	.08	.04	.03	.03	.06
TEXAS CITY	59	.05	.04	.05	.07	.03	.07	.02	.08
WACO	58	.08	.04	.02	.03	.04	.06	.05	.05
VERMONT									
BURLINGTON	58	.02	.07	.05	.05	.00	.06	.03	.03
VIRGINIA									
DANVILLE	60	.06	.05	.10	.15				
HAMPTON	58	.02	.39	.06	.04	.03	.05	.09	.02
NORFOLK	58	.08	.10	.04	.08	.04	.03	.02	.05
RICHMOND	57	.15	.05	.08	.10	.06	.03	.03	.04
ROANOKE	59	1.30	.34	.33	.87	.15	.11	.12	.15
WEST VIRGINIA									
CHARLESTON	58	.82	1.50	.11	7.10	.52	.17	.05	1.10
HUNTINGTON	58	.36	.16	.13	.13	.08	.12	.04	.11
WHEELING	59	.47	.24	.18	.74	.23	.48	.11	.24
WISCONSIN									
MADISON	59	.05	.44	.06	.05	.00	.05	.04	.03
RACINE	60	.10	.10	.36	.08				

TABLE 2.32—NICKEL: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.011	.016	.019	.023	.028	.033	.042	.055	.074	.830	.040	.028	2.07
NEW ENGLAND	58	43	.013	.016	.027	.030	.037	.062	.067	.073	.135	.243	.830	.108	.053	2.71
MID ATLANTIC	58 60	45		.019	.027	.035	.044	.050	.057	.066	.071	.096	.150	.053	.040	1.82
MID EAST	57 60	99		.014	.020	.025	.030	.036	.045	.054	.076	.094	.260	.050	.037	2.10
SOUTH EAST	57 58	119		.012	.016	.019	.022	.025	.028	.034	.041	.050	.410	.034	.025	1.77
MID WEST	57 60	172		.010	.018	.021	.024	.027	.032	.037	.043	.055	.150	.034	.028	1.63
GREAT PLAINS	58	123		.001	.010	.013	.017	.020	.022	.027	.033	.044	.098	.022	.014	3.16
GULF SOUTH	58	50		.011	.013	.016	.017	.020	.026	.029	.031	.041	.061	.023	.020	1.68
ROCKY MOUNTAIN	58	73			.001	.011	.014	.017	.020	.024	.030	.055	.120	.021		
PACIFIC COAST	57 58	95		.021	.027	.037	.046	.063	.069	.078	.094	.128	.180	.065	.054	2.02
ALABAMA BIRMINGHAM	58	21		.015	.020	.023	.024	.026	.031	.037	.044	.057	.065	.031	.026	1.65
CALIFORNIA LOS ANGELES	58	21	.014	.022	.037	.044	.052	.067	.072	.081	.104	.123	.180	.069	.059	1.69
COLORADO DENVER	58	25		.001	.011	.015	.018	.023	.026	.037	.057	.074	.120	.031	.018	3.92
FLORIDA TAMPA	58	26	.011	.015	.017	.018	.020	.023	.026	.042	.047	.050	.410	.044	.025	1.70
GEORGIA ATLANTA	58	20		.001	.013	.015	.017	.020	.023	.026	.031	.035	.059	.021	.015	2.81
ILLINOIS CHICAGO	58	21	.013	.024	.029	.033	.036	.040	.043	.047	.052	.064	.140	.044	.039	1.42
INDIANA INDIANAPOLIS	58	24		.012	.017	.018	.019	.020	.021	.028	.031	.041	.058	.023	.021	1.55
IOWA DES MOINES	58	26		.009	.010	.012	.013	.016	.019	.020	.022	.026	.043	.018	.015	1.54
KANSAS WICHITA	58	22		.001	.010	.015	.018	.020	.022	.024	.033	.037	.049	.020	.014	2.95
LOUISIANA NEW ORLEANS	58	25		.013	.017	.019	.021	.026	.028	.031	.037	.042	.054	.025	.024	1.57
MARYLAND BALTIMORE	57	24	.017	.019	.028	.031	.037	.044	.055	.062	.079	.096	.130	.051	.044	1.86
	58	25	.014	.016	.022	.029	.034	.047	.049	.057	.074	.104	.250	.057	.041	2.02
	60	25	.018	.023	.025	.029	.034	.041	.044	.062	.088	.173	.260	.065	.046	2.12
	57 60	74	.014	.019	.025	.029	.035	.043	.050	.060	.080	.101	.260	.058	.042	1.95
MASSACHUSETTS BOSTON	58	23	.028	.029	.044	.062	.068	.088	.135	.173	.265	.482	.830	.171	.100	2.79
MICHIGAN DETROIT	58	25	.017	.020	.023	.025	.026	.030	.033	.039	.044	.062	.150	.037	.031	1.52

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26		.001	.001	.011	.017	.021	.026	.031	.044	.049	.061	.023	.014	3.03
MISSOURI																
ST LOUIS	58	24		.013	.019	.021	.026	.028	.029	.034	.041	.057	.098	.032	.027	1.67
NEW HAMPSHIRE																
MANCHESTER	58	20	.013	.014	.016	.022	.026	.029	.031	.052	.064	.069	.088	.038	.031	1.97
NORTH CAROLINA																
CHARLOTTE	58	25		.001	.010	.012	.018	.022	.026	.031	.037	.061	.110	.028	.016	3.63
NORTH DAKOTA																
BISMARCK	58	25		.001	.010	.011	.013	.016	.020	.028	.029	.037	.050	.018	.013	3.04
OHIO																
CLEVELAND	58	25	.011	.016	.017	.022	.026	.037	.041	.047	.052	.074	.081	.038	.032	1.66
DAYTON	60	26	.014	.016	.019	.021	.023	.026	.030	.033	.037	.042	.064	.029	.026	1.46
OREGON																
PORTLAND	58	25	.011	.020	.026	.034	.039	.052	.065	.074	.083	.135	.150	.060	.049	2.06
PENNSYLVANIA																
PHILADELPHIA	58	21	.014	.016	.044	.049	.062	.067	.071	.074	.092	.100	.150	.066	.057	1.60
PITTSBURGH	60	24		.018	.022	.027	.031	.037	.044	.050	.055	.066	.130	.042	.035	1.69
TENNESSEE																
NASHVILLE	57	26		.001	.016	.018	.020	.022	.026	.031	.036	.041	.069	.023	.017	2.66
	58	26		.001	.015	.023	.026	.029	.033	.037	.062	.070	.140	.036	.022	3.56
	57 58	52		.001	.015	.019	.023	.026	.030	.034	.042	.065	.140	.030	.019	3.33
TEXAS																
HOUSTON	58	25		.010	.011	.014	.015	.017	.018	.027	.029	.041	.061	.021	.018	1.73
UTAH																
SALT LAKE CITY	58	24			.001	.010	.011	.015	.017	.018	.023	.041	.064	.016		
WASHINGTON																
SEATTLE	57	25	.022	.025	.031	.062	.070	.081	.088	.100	.110	.135	.180	.079	.069	1.91
TACOMA	58	24		.012	.022	.026	.037	.044	.049	.064	.069	.088	.160	.051	.039	2.10
WISCONSIN																
MILWAUKEE	57	25	.011	.016	.018	.020	.021	.023	.025	.037	.044	.057	.070	.029	.026	1.65
	58	26		.015	.018	.020	.021	.024	.031	.033	.037	.047	.053	.028	.025	1.56
	57 58	51		.015	.018	.019	.021	.023	.028	.034	.042	.050	.070	.028	.025	1.61
WYOMING																
CHEYENNE	58	24			.001	.010	.013	.015	.019	.022	.026	.037	.055	.016		

TABLE 2.33 — NICKEL: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.048	.017	.020	.029	.018	.023	.015	.044
MONTGOMERY	59	.026	.024	.018	.026	.014	.024	.019	.018
ALASKA									
ANCHORAGE	58	.057	.023	.033	.067	.044	.032	.021	.063
ARIZONA									
PHOENIX	59	.054	.066	.075	.053	.049	.028	.037	.033
TUCSON	60	.017	.022	.012	.028				
ARKANSAS									
LITTLE ROCK	58	.027	.011	.000	.011	.020	.012	.011	.012
CALIFORNIA									
BERKELEY	59	.069	.052	.059	.076	.028	.028	.028	.057
BURBANK	60	.094	.034	.024	.090				
FRESNO	58	.015	.025	.022	.029	.012	.018	.015	.030
GLENDALE	59	.100	.062	.056	.077	.058	.027	.038	.046
LONG BEACH	58	.250	.110	.088	.110	.068	.041	.066	.120
OAKLAND	58	.047	.030	.042	.094	.036	.020	.035	.058
RICHMOND	58	.030	.020	.038	.053	.055	.023	.080	.037
SACRAMENTO	58	.013	.009	.030	.026	.011	.013	.031	.036
SAN BERNARDINO	59	.083	.065	.083	.160	.048	.050	.062	.069
SAN DIEGO	58	.037	.018	.019	.057	.029	.017	.019	.039
SAN FRANCISCO	58	.039	.028	.015	.200	.040	.017	.016	.044
SAN JOSE	57	.050	.019	.031	.048	.031	.017	.024	.021
STOCKTON	58	.013	.029	.019	.036	.011	.026	.029	.026
CONNECTICUT									
BRIDGEPORT	60	.140	.092	.053	.160				
HARTFORD	58	.096	.045	.023	.120	.049	.067	.020	.052
NEW BRITAIN	59	.200	.064	.037	.092	.052	.030	.026	.038
NEW HAVEN	58	.046	.020	.022	.050	.058	.043	.021	.046
STAMFORD	57	.100	.130	.180	.160	.049	.031	.037	.047
DELAWARE									
WILMINGTON	58	.270	.083	.084	.120	.130	.080	.064	.068
DIST OF COL									
WASHINGTON D C	58	.071	.030	.038	.050	.062	.027	.037	.071
FLORIDA									
JACKSONVILLE	58	.027	.020	.021	.025	.020	.018	.020	.014
MIAMI	59	.084	.029	.034	.026	.026	.018	.017	.021
ORLANDO	59	.042	.026	.029	.046	.028	.025	.025	.030
GEORGIA									
AUGUSTA	58	.021	.026	.022	.022	.012	.011	.012	.017
COLUMBUS	57	.017	.020	.016	.021	.013	.013	.015	.016
MACON	58	.023	.019	.013	.027	.019	.019	.017	.021
SAVANNAH	59	.036	.033	.035	.040	.025	.017	.019	.025
HAWAII									
HONOLULU	58	.056	.066	.038	.084	.082	.072	.045	.057
IDAHO									
BOISE	58	.015	.012	.013	.020	.023	.018	.200	.013
ILLINOIS									
PEORIA	58	.000	.018	.018	.014	.015	.014	.019	.022
ROCKFORD	59	.039	.038	.016	.011	.022	.014	.010	.013
INDIANA									
EAST CHICAGO	59	.630	.340	.098	.240	.430	.059	.089	.230
EVANSVILLE	60	.023	.026	.030	.035				
FORT WAYNE	60	.049	.019	.026	.024				
GARY	60	.150	.048	.057	.060				
HAMMOND	59	.058	.140	.057	.065	.028	.052	.026	.030
SOUTH BEND	59	.049	.040	.035	.046	.047	.033	.025	.021
TERRE HAUTE	58	.038	.004	.018	.016				
IOWA									
DAVENPORT	58	.054	.018	.031	.013	.013	.011	.016	.011
KANSAS									
KANSAS CITY	60	.016	.031	.030	.018				
TOPEKA	59	.023	.024	.021	.019	.017	.030	.016	.018
LOUISIANA									
BATON ROUGE	57	.017	.013	.020	.026				
SHREVEPORT	59	.022	.026	.047	.037	.019	.022	.031	.024
MAINE									
PORTLAND	58	.160	.100	.042	.047	.071	.037	.034	.079

TABLE 2.33 — NICKEL: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.026	.019	.025	.031	.036	.025	.012	.035
CAMBRIDGE	59	.150	.140	.063	.200	.067	.059	.023	.066
FALL RIVER	58	.092	.044	.130	.049	.048	.020	.049	.049
LAWRENCE	60	.064	.052	.068	.058				
LOWELL	59	.091	.056	.059	.079	.039	.035	.019	.030
LYNN	60	.087	.043	.031	.160				
NEW BEDFORD	59	.038	.027	.036	.056	.028	.016	.021	.019
QUINCY	58	.089	.056	.028	.060	.044	.042	.020	.034
SOMERVILLE	60	.077	.120	.044	.120				
SPRINGFIELD	60	.061	.058	.066	.060				
WORCESTER	57	.100	.037	.035	.088	.060	.031	.023	.056
MICHIGAN									
DEARBORN	59	.059	.056	.046	.069	.024	.040	.028	.028
FLINT	57	.130	.088	.031	.026	.050	.029	.025	.016
JACKSON	58	.011	.028	.015	.017	.000	.012	.011	.000
KALAMAZOO	60	.027	.025	.022	.041				
LANSING	57	.017	.040	.042	.017	.013	.016	.020	.014
SAGINAW	58	.018	.017	.032	.039	.012	.022	.017	.024
MINNESOTA									
DULUTH	57	.069	.021	.054	.046	.024	.011	.019	.016
MISSISSIPPI									
JACKSON	58	.013	.012	.024	.020	.000	.012	.013	.012
MISSOURI									
KANSAS CITY	58	.026	.026	.029	.020				
MONTANA									
HELENA	58	.015	.018	.021	.011	.011	.000	.000	.000
NEBRASKA									
LINCOLN	60	.015	.010	.018	.012				
OMAHA	58	.000	.012	.012	.012	.017	.018	.017	.020
NEVADA									
LAS VEGAS	58	.018	.012	.013	.019	.022	.019	.014	.016
NEW JERSEY									
ATLANTIC CITY	58	.027	.022	.011	.014	.031	.017	.013	.032
EAST ORANGE	60	.310	.043	.049	.071				
ELIZABETH	58	.079	.130	.037	.350	.037	.110	.043	.059
JERSEY CITY	59	.130	.110	.150	.250	.170	.120	.091	.120
NEWARK	59	.180	.160	.098	.220	.054	.050	.061	.064
NEW MEXICO									
ALBUQUERQUE	58	.020	.016	.037	.021	.018	.020	.025	.028
NEW YORK									
BINGHAMTON	60	.065	.054	.034	.058				
ELMIRA	60	.039	.037	.016	.034				
NEW YORK CITY	60	.880	.190	.240	.410				
SCHENECTADY	60	.034	.031	.016	.022				
SYRACUSE	60	.066	.044	.038	.054				
UTICA	60	.038	.015	.015	.046				
NORTH CAROLINA									
GREENSBORO	58	.023	.011	.019	.028	.000	.016	.009	.010
RALEIGH	59	.039	.020	.020	.037	.024	.017	.018	.016
WINSTON SALEM	57	.025	.014	.015	.017	.015	.015	.021	.014
OHIO									
AKRON	60	.028	.021	.026	.051				
CANTON	59	.068	.089	.071	.094	.055	.066	.036	.051
CINCINNATI	58	.059	.034	.029	.039	.021	.019	.019	.031
COLUMBUS	58	.029	.027	.018	.110	.110	.033	.022	.026
HAMILTON	59	.027	.023	.025	.037	.019	.033	.033	.017
LORAIN	57	.049	.019	.040	.051	.021	.027	.017	.046
SPRINGFIELD	58	.034	.021	.020	.029	.016	.014	.020	.013
TOLEDO	57	.037	.027	.059	.076	.020	.013	.026	.030
YOUNGSTOWN	58	.022	.046	.025	.032	.180	.031	.032	.026
OKLAHOMA									
OKLAHOMA CITY	58	.010	.000	.010	.000	.010	.012	.017	.011

TABLE 2.33—NICKEL: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE—Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	.054	.035	.034	.036	.020	.022	.017	.029
HARRISBURG	58	.068	.061	.018	.098	.057	.069	.018	.046
JOHNSTOWN	59	.082	.075	.022	.041	.052	.044	.029	.030
READING	58	.090	.022	.031	.400	.037	.023	.077	.100
SCRANTON	57	.036	.062	.034	.079	.019	.027	.026	.036
WILKES BARRE	58	.020	.012	.016	.018	.015	.017	.018	.012
YORK	59	.088	.050	.030	.062	.032	.039	.017	.024
PUERTO RICO									
SAN JUAN	59	.062	.076	.099	.075	.097	.079	.068	.040
RHODE ISLAND									
PROVIDENCE	58	.180	.160	.088	.170	.100	.046	.024	.110
SOUTH CAROLINA									
CHARLESTON	59	.027	.026	.019	.030	.027	.017	.022	.016
COLUMBIA	57	.039	.017	.024	.018	.027	.018	.015	.022
GREENVILLE	57	.018	.023	.028	.019	.020	.016	.016	.018
SOUTH DAKOTA									
SIOUX FALLS	58	.000	.014	.012	.015	.022	.022	.018	.022
TENNESSEE									
CHATTANOOGA	58	.084	.021	.012	.036	.019	.016	.025	.034
KNOXVILLE	59	.051	.027	.026	.050	.027	.023	.016	.021
MEMPHIS	58	.012	.011	.012	.010	.012	.013	.016	.012
TEXAS									
BEAUMONT	59	.031	.025	.023	.015	.022	.023	.016	.013
CORPUS CHRISTI	60	.012	.014	.011	.011				
EL PASO	57	.029	.058	.018	.027	.012	.014	.015	.019
FORT WORTH	58	.015	.024	.017	.014	.009	.008	.009	.010
GALVESTON	59	.022	.032	.033	.035	.019	.022	.019	.029
SAN ANTONIO	58	.025	.011	.015	.016	.011	.011	.000	.014
TEXAS CITY	59	.039	.028	.032	.031	.027	.023	.029	.040
WACO	58	.018	.018	.019	.013	.015	.019	.019	.014
VERMONT									
BURLINGTON	58	.012	.020	.013	.017	.000	.019	.000	.020
VIRGINIA									
DANVILLE	60	.023	.019	.015	.029				
HAMPTON	58	.017	.019	.029	.019	.011	.012	.037	.000
NORFOLK	58	.032	.025	.015	.037	.031	.077	.016	.031
RICHMOND	57	.100	.032	.026	.038	.032	.018	.015	.023
ROANOKE	59	.094	.036	.028	.080	.019	.017	.019	.022
WEST VIRGINIA									
CHARLESTON	58	.032	.040	.053	.068	.044	.072	.033	.066
HUNTINGTON	58	.027	.110	.017	.210	.017	.050	.000	.072
WHEELING	59	.067	.055	.053	.062	.120	.071	.041	.051
WISCONSIN									
MADISON	59	.020	.031	.017	.018	.011	.016	.012	.014
RACINE	60	.027	.024	.046	.026				

TABLE 2.34 — TIN: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.01	.02	.03	.03	.04	.05	.05	.06	.08	1.00	.05	.03	2.07
NEW ENGLAND	58	43	.02	.02	.02	.03	.03	.04	.05	.05	.06	.07	.11	.04	.03	1.70
MID ATLANTIC	58 60	45		.03	.04	.05	.05	.06	.06	.07	.08	.10	.20	.06	.05	1.53
MID EAST	57 60	99		.02	.03	.03	.04	.04	.05	.05	.06	.07	.14	.04	.04	1.58
SOUTH EAST	57 58	119		.02	.02	.03	.04	.04	.05	.06	.08	.29	1.00	.09	.04	2.50
MID WEST	57 60	172	.02	.03	.04	.04	.05	.05	.06	.07	.07	.09	.13	.06	.05	1.50
GREAT PLAINS	58	123		.01	.01	.02	.02	.02	.03	.04	.05	.07	.51	.03	.02	2.20
GULF SOUTH	58	50		.01	.02	.03	.03	.04	.04	.05	.06	.08	.13	.04	.03	2.05
ROCKY MOUNTAIN	58	73		.01	.01	.02	.02	.03	.03	.04	.05	.06	.13	.03	.02	2.12
PACIFIC COAST	57 58	95				.01	.01	.02	.03	.04	.05	.07	.13	.02		
ALABAMA																
BIRMINGHAM	58	21		.01	.01	.02	.04	.05	.06	.07	.08	.10	1.00	.09	.03	2.71
CALIFORNIA																
LOS ANGELES	58	21	.04	.03	.04	.05	.05	.06	.07	.07	.08	.09	.13	.06	.05	1.51
RICHMOND	58	22						.01	.01	.01	.01	.01				
STOCKTON	58	26						.01	.01	.01	.01	.01				
COLORADO																
DENVER	58	25		.02	.03	.04	.04	.05	.05	.06	.06	.07	.13	.05	.04	1.56
FLORIDA																
TAMPA	58	26		.02	.02	.03	.03	.04	.04	.04	.05	.06	.66	.06	.03	1.55
GEORGIA																
ATLANTA	58	20	.02	.02	.03	.04	.05	.06	.07	.08	.09	.13	.19	.07	.05	1.99
ILLINOIS																
CHICAGO	58	21	.04	.04	.05	.05	.06	.07	.07	.08	.09	.10	.11	.07	.06	1.43
INDIANA																
INDIANAPOLIS	58	24	.03	.03	.03	.04	.04	.05	.05	.05	.06	.06	.07	.05	.04	1.35
IOWA																
DES MOINES	58	26		.01	.01	.02	.02	.02	.03	.03	.03	.04	.05	.02	.02	1.73
KANSAS																
WICHITA	58	22			.01	.01	.02	.02	.02	.03	.03	.04	.51	.04		
LOUISIANA																
NEW ORLEANS	58	25		.01	.02	.02	.03	.03	.04	.04	.05	.06	.07	.03	.02	1.89
MARYLAND																
BALTIMORE	57	24	.03	.03	.04	.04	.04	.05	.05	.06	.07	.09	.10	.05	.04	1.48
	58	25	.02	.03	.03	.03	.04	.04	.04	.05	.06	.07	.14	.04	.04	1.42
	60	25	.03	.03	.04	.04	.04	.05	.05	.06	.06	.10	.12	.05	.04	1.48
	57 60	74	.02	.03	.03	.04	.04	.04	.05	.06	.06	.08	.14	.05	.04	1.47
MASSACHUSETTS																
BOSTON	58	23	.03	.03	.04	.04	.05	.05	.05	.06	.07	.08	.11	.05	.05	1.42
MICHIGAN																
DETROIT	58	25	.03	.03	.05	.05	.06	.06	.07	.08	.08	.10	.13	.06	.06	1.50

TABLE 2.34 — TIN: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter														Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26	.02	.02	.02	.03	.03	.03	.04	.04	.05	.06	.08	.04	.03	1.55
MISSOURI																
ST LOUIS	58	24	.03	.03	.04	.04	.05	.06	.07	.08	.08	.10	.13	.06	.05	1.60
NEVADA																
LAS VEGAS	58	22						.01	.01	.01	.01	.01				
NEW HAMPSHIRE																
MANCHESTER	58	26	.02	.01	.02	.02	.02	.03	.03	.03	.04	.05	.06	.03	.02	1.71
NORTH CAROLINA																
CHARLOTTE	58	25		.01	.02	.02	.02	.03	.04	.04	.05	.06	.07	.03	.02	1.93
NORTH DAKOTA																
BISMARCK	58	25				.01	.01	.01	.01	.02	.02	.02	.03	.01		
OHIO																
CLEVELAND	58	25	.03	.03	.04	.05	.06	.07	.07	.08	.09	.11	.12	.07	.06	1.61
DAYTON	60	26	.03	.03	.03	.04	.04	.05	.05	.06	.06	.07	.09	.05	.04	1.42
OREGON																
PORTLAND	58	25		.01	.01	.02	.03	.04	.04	.07	.08	.10	.11	.04	.03	2.70
PENNSYLVANIA																
PHILADELPHIA	58	21		.01	.03	.04	.04	.05	.06	.06	.07	.08	.20	.05	.04	1.96
PITTSBURGH	60	24		.04	.05	.05	.06	.06	.07	.08	.09	.10	.16	.07	.06	1.43
TENNESSEE																
NASHVILLE	57	26	.03	.03	.03	.04	.04	.06	.29	.32	.39	.41	.50	.19	.10	3.67
	58	26		.01	.02	.02	.03	.03	.04	.04	.05	.06	.09	.03	.02	1.89
	57 58	52		.02	.02	.03	.03	.04	.05	.06	.29	.39	.50	.11	.05	3.31
TEXAS																
HOUSTON	58	25		.02	.02	.03	.04	.05	.05	.06	.08	.10	.13	.05	.04	1.95
UTAH																
SALT LAKE CITY	58	24		.01	.01	.02	.02	.03	.03	.04	.04	.06	.08	.03	.02	2.05
WASHINGTON																
SEATTLE	57	25		.02	.03	.03	.04	.04	.04	.05	.06	.07	.09	.04	.03	1.56
TACOMA	58	24	.02	.02	.03	.03	.04	.04	.04	.05	.05	.06	.07	.04	.03	1.47
WISCONSIN																
MILWAUKEE	57	25	.03	.04	.04	.04	.05	.05	.06	.07	.08	.09	.11	.06	.05	1.43
	58	26	.02	.03	.03	.04	.04	.05	.06	.06	.07	.07	.09	.05	.04	1.47
	57 58	51	.02	.03	.04	.04	.05	.05	.06	.06	.07	.08	.11	.05	.05	1.43
WYOMING																
CHEYENNE	58	24			.01	.01	.01	.01	.02	.02	.02	.03	.09	.01		

TABLE 2.35 — TIN: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.06	.06	.07	.06	.05	.05	.05	.08
MONTGOMERY	59	.04	.03	.03	.05	.02	.04	.03	.00
ALASKA									
ANCHORAGE	58	.03	.00	.03	.03	.02	.03	.00	.02
ARIZONA									
PHOENIX	59	.10	.05	.04	.06	.06	.03	.03	.03
TUCSON	60	.00	.00	.00	.02				
ARKANSAS									
LITTLE ROCK	58	.04	.03	.02	.03	.06	.03	.02	.03
CALIFORNIA									
BERKELEY	59	.08	.05	.05	.06	.04	.04	.04	.05
BURBANK	60	.05	.07	.05	.00				
FRESNO	58	.01	.03	.05	.05	.04	.04	.03	.05
GLENDALE	59	.07	.08	.08	.06	.05	.04	.06	.05
LONG BEACH	58	.07	.05	.04	.08	.07	.05	.05	.06
OAKLAND	58	.09	.05	.09	.11	.05	.04	.07	.07
RICHMOND	58	.04	.04	.04	.06	.05	.04	.04	.06
SACRAMENTO	58	.06	.03	.05	.06	.03	.02	.05	.06
SAN BERNARDINO	59	.05	.04	.05	.06	.04	.04	.05	.05
SAN DIEGO	58	.03	.03	.02	.04	.02	.02	.02	.03
SAN FRANCISCO	58	.07	.06	.03	.06	.07	.04	.03	.05
SAN JOSE	57	.05	.02	.05	.05	.04	.03	.05	.04
STOCKTON	58	.00	.03	.05	.03	.03	.03	.05	.04
CONNECTICUT									
BRIDGEPORT	60	.04	.04	.07	.13				
HARTFORD	58	.05	.03	.05	.04	.05	.06	.04	.03
NEW BRITAIN	59	.11	.06	.06	.07	.06	.07	.07	.06
NEW HAVEN	58	.04	.03	.02	.07	.05	.05	.04	.05
STAMFORD	57	.09	.05	.09	.11	.05	.06	.06	.05
DELAWARE									
WILMINGTON	58	.10	.07	.08	.08	.07	.05	.06	.08
DIST OF COL									
WASHINGTON D C	58	.05	.04	.05	.05	.06	.05	.05	.05
FLORIDA									
JACKSONVILLE	58	.04	.04	.05	.06	.06	.03	.05	.05
MIAMI	59	.05	.03	.05	.07	.04	.03	.03	.05
ORLANDO	59	.06	.03	.04	.05	.04	.02	.03	.03
GEORGIA									
AUGUSTA	58	.02	.04	.02	.06	.04	.03	.04	.05
COLUMBUS	57	.03	.04	.04	.04	.04	.03	.03	.04
MACON	58	.03	.03	.02	.04	.04	.03	.03	.04
SAVANNAH	59	.03	.05	.03	.04	.02	.02	.02	.02
HAWAII									
HONOLULU	58	.05	.03	.03	.04	.05	.04	.04	.05
IDAHO									
BOISE	58	.02	.02	.02	.02	.03	.02	.03	.02
ILLINOIS									
PEORIA	58	.05	.04	.08	.06	.05	.04	.04	.07
ROCKFORD	59	.06	.05	.03	.02	.05	.05	.05	.04
INDIANA									
EAST CHICAGO	59	.11	.09	.06	.07	.12	.06	.08	.11
EVANSVILLE	60	.06	.05	.03	.06				
FORT WAYNE	60	.04	.02	.04	.05				
GARY	60	.13	.05	.04	.12				
HAMMOND	59	.06	.08	.12	.09	.06	.08	.07	.07
SOUTH BEND	59	.09	.09	.08	.17	.06	.06	.05	.06
TERRE HAUTE	58	.06	.05	.02	.03				
IOWA									
DAVENPORT	58	.06	.03	.04	.03	.04	.04	.04	.03
KANSAS									
KANSAS CITY	60	.00	.04	.08	.03				
TOPEKA	59	.03	.04	.04	.04	.06	.07	.03	.03
LOUISIANA									
BATON ROUGE	57	.03	.02	.02	.04	.02	.02	.03	.03
SHREVEPORT	59	.03	.03	.05	.04	.02	.03	.04	.04
MAINE									
PORTLAND	58	.05	.05	.04	.04	.05	.04	.04	.05

TABLE 2.35 — TIN: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.04	.03	.04	.04	.04	.04	.02	.05
CAMBRIDGE	59	.07	.07	.05	.08	.06	.05	.04	.04
FALL RIVER	58	.03	.02	.08	.04	.03	.03	.03	.03
LAWRENCE	60	.07	.06	.08	.08				
LOWELL	59	.06	.05	.07	.05	.03	.04	.04	.04
LYNN	60	.06	.04	.05	.11				
NEW BEDFORD	59	.05	.04	.05	.04	.04	.02	.04	.03
QUINCY	58	.08	.04	.04	.14	.05	.04	.05	.09
SOMERVILLE	60	.06	.09	.06	.02				
SPRINGFIELD	60	.04	.08	.13	.05				
WORCESTER	57	.06	.04	.04	.07	.05	.05	.04	.04
MICHIGAN									
DEARBORN	59	.05	.06	.06	.09	.04	.05	.06	.07
FLINT	57	.05	.05	.05	.04	.05	.05	.04	.03
JACKSON	58	.03	.03	.00	.03	.02	.02	.02	.04
KALAMAZOO	60	.05	.05	.03	.05				
LANSING	57	.04	.05	.05	.05	.05	.05	.04	.04
SAGINAW	58	.05	.03	.06	.06	.04	.04	.04	.06
MINNESOTA									
DULUTH	57	.07	.03	.05	.06	.04	.03	.03	.04
MISSISSIPPI									
JACKSON	58	.04	.04	.04	.05	.03	.03	.03	.03
MISSOURI									
KANSAS CITY	58	.05	.05	.08	.04	.06	.05	.08	.06
MONTANA									
HELENA	58	.03	.03	.04	.03	.04	.00	.00	.02
NEBRASKA									
LINCOLN	60	.03	.00	.01	.02				
OMAHA	58	.03	.05	.08	.03	.03	.04	.05	.04
NEVADA									
LAS VEGAS	58	.04	.02	.03	.02	.04	.03	.03	.03
NEW JERSEY									
ATLANTIC CITY	58	.03	.03	.03	.02	.03	.03	.03	.03
EAST ORANGE	60	.11	.06	.04	.07				
ELIZABETH	58	.10	.09	.08	.12	.08	.10	.07	.07
JERSEY CITY	59	.09	.10	.09	.16	.12	.11	.08	.11
NEWARK	59	.10	.10	.06	.08	.05	.06	.05	.06
NEW MEXICO									
ALBUQUERQUE	58	.04	.03	.04	.03	.04	.06	.03	.03
NEW YORK									
BINGHAMTON	60	.08	.05	.06	.05				
ELMIRA	60	.01	.02	.00	.01				
NEW YORK CITY	60	.09	.11	.15	.10				
SCHENECTADY	60	.00	.02	.00	.00				
SYRACUSE	60	.00	.02	.02	.03				
UTICA	60	.03	.00	.00	.00				
NORTH CAROLINA									
GREENSBORO	58	.03	.02	.01	.03	.03	.03	.01	.03
RALEIGH	59	.04	.03	.04	.04	.03	.02	.02	.02
WINSTON SALEM	57	.04	.03	.02	.03	.04	.03	.04	.04
OHIO									
AKRON	60	.06	.04	.05	.09				
CANTON	59	.06	.06	.06	.10	.05	.05	.05	.07
CINCINNATI	58	.29	.19	.12	.15	.11	.09	.08	.11
COLUMBUS	58	.05	.05	.03	.07	.06	.06	.05	.06
HAMILTON	59	.06	.06	.05	.07	.05	.04	.04	.05
LORAIN	57	.06	.03	.07	.08	.07	.06	.06	.09
SPRINGFIELD	58	.08	.03	.05	.06	.05	.05	.06	.06
TOLEDO	57	.07	.06	.07	.07	.05	.05	.05	.06
YOUNGSTOWN	58	.05	.07	.07	.07	.05	.05	.07	.07
OKLAHOMA									
OKLAHOMA CITY	58	.03	.06	.04	.03	.03	.04	.04	.02

TABLE 2.35 — TIN: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	.07	.07	.06	.06	.04	.05	.04	.05
HARRISBURG	58	.09	.10	.04	.10	.08	.05	.03	.08
JOHNSTOWN	59	.08	.10	.04	.06	.07	.07	.04	.05
READING	58	.06	.06	.05	.10	.05	.05	.05	.08
SCRANTON	57	.06	.06	.05	.09	.05	.04	.05	.07
WILKES BARRE	58	.05	.04	.04	.04	.04	.04	.04	.04
YORK	59	.10	.07	.04	.07	.05	.05	.03	.05
PUERTO RICO									
SAN JUAN	59	.04	.07	.08	.05	.06	.06	.06	.04
RHODE ISLAND									
PROVIDENCE	58	.05	.05	.09	.11	.07	.05	.06	.13
SOUTH CAROLINA									
CHARLESTON	59	.04	.04	.03	.03	.08	.05	.07	.04
COLUMBIA	57	.05	.03	.05	.04	.04	.03	.03	.04
GREENVILLE	57	.03	.04	.04	.06	.04	.02	.03	.03
SOUTH DAKOTA									
SIOUX FALLS	58	.00	.02	.03	.02	.03	.04	.04	.03
TENNESSEE									
CHATTANOOGA	58	.06	.05	.06	.11	.05	.05	.09	.16
KNOXVILLE	59	.05	.03	.04	.06	.05	.04	.03	.04
MEMPHIS	58	.03	.02	.03	.03	.03	.02	.03	.03
TEXAS									
AUSTIN	58	.03	.00	.03	.03	.03	.03	.03	.02
BEAUMONT	59	.04	.03	.03	.03	.04	.04	.04	.03
CORPUS CHRISTI	60	.00	.00	.00	.01				
DALLAS	58	.04	.07	.04	.04	.05	.05	.03	.06
EL PASO	57	.08	.05	.05	.0	.06	.04	.04	.08
FORT WORTH	58	.03	.04	.04	.04	.05	.03	.03	.03
GALVESTON	59	.03	.03	.03	.10	.03	.04	.03	.05
SAN ANTONIO	58	.04	.03	.04	.03	.02	.03	.03	.04
TEXAS CITY	59	.04	.04	.04	.04	.02	.03	.04	.04
WACO	58	.02	.02	.02	.04	.02	.03	.05	.03
VERMONT									
BURLINGTON	58	.03	.05	.03	.03	.03	.05	.03	.04
VIRGINIA									
DANVILLE	60	.00	.03	.04	.05				
HAMPTON	58	.02	.04	.03	.03	.03	.05	.03	.02
NORFOLK	58	.05	.06	.03	.04	.05	.04	.03	.05
RICHMOND	57	.09	.03	.05	.05	.06	.03	.03	.04
ROANOKE	59	.07	.05	.06	.09	.03	.03	.03	.05
WEST VIRGINIA									
CHARLESTON	58	.04	.04	.05	.06	.05	.04	.03	.04
HUNTINGTON	58	.06	.04	.03	.06	.04	.04	.03	.05
WHEELING	59	.05	.06	.06	.10	.05	.06	.05	.07
WISCONSIN									
MADISON	59	.03	.03	.02	.03	.02	.02	.03	.03
RACINE	60	.07	.04	.10	.06				

TABLE 2.36—TITANIUM: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	819		.01	.01	.02	.02	.03	.05	.08	.11	.15	1.14	.06	.03	3.25
NEW ENGLAND	58	43			.01	.01	.01	.02	.03	.03	.04	.12	.24	.04		
MID ATLANTIC	58 60	45	.01	.01	.02	.03	.04	.06	.08	.10	.13	.21	.29	.08	.05	3.15
MID EAST	57 60	99	.01	.01	.02	.02	.03	.04	.05	.07	.09	.14	.33	.06	.03	2.70
SOUTH EAST	57 58	119		.01	.01	.02	.02	.03	.06	.08	.12	.18	.44	.07	.03	3.47
MID WEST	57 60	172		.01	.02	.03	.04	.05	.07	.09	.12	.15	1.14	.08	.04	2.83
GREAT PLAINS	58	123		.01	.01	.02	.02	.03	.04	.07	.10	.14	.26	.05	.03	3.08
GULF SOUTH	58	50				.01	.01	.01	.01	.02	.03	.07	.11	.02		
ROCKY MOUNTAIN	58	73			.01	.01	.02	.02	.03	.05	.07	.13	.17	.04		
PACIFIC COAST	57 58	95		.01	.02	.03	.04	.07	.08	.11	.15	.18	.46	.08	.05	3.14
ALABAMA																
BIRMINGHAM	58	21	.01	.01	.02	.02	.03	.05	.10	.19	.21	.32	.42	.12	.05	4.25
CALIFORNIA																
LOS ANGELES	58	21	.03	.03	.06	.08	.10	.12	.14	.16	.18	.23	.46	.13	.10	2.07
COLORADO																
DENVER	58	25		.01	.01	.02	.04	.06	.07	.08	.11	.16	.17	.06	.04	3.25
FLORIDA																
TAMPA	58	26	.01		.01	.01	.01	.02	.02	.02	.03	.09	.24	.03		
GEORGIA																
ATLANTA	58	20	.01	.01	.02	.05	.07	.08	.09	.12	.15	.30	.44	.11	.06	3.33
ILLINOIS																
CHICAGO	58	21	.01	.01	.02	.03	.04	.05	.06	.09	.11	.12	.13	.06	.04	2.63
INDIANA																
INDIANAPOLIS	58	24	.01	.01	.01	.02	.03	.04	.05	.07	.08	.13	.26	.06	.03	2.90
IOWA																
DES MOINES	58	26	.01	.01	.02	.03	.04	.05	.07	.08	.13	.17	.23	.07	.04	2.92
KANSAS																
WICHITA	58	22	.01	.01	.01	.02	.02	.03	.03	.04	.06	.11	.15	.04	.02	2.51
LOUISIANA																
NEW ORLEANS	58	25	.01			.01	.01	.01	.01	.02	.02	.07	.09	.02		
MARYLAND																
BALTIMORE	57	24	.02	.03	.05	.05	.06	.07	.08	.09	.11	.15	.33	.08	.06	1.76
	58	25	.01	.01	.01	.01	.02	.02	.03	.04	.06	.12	.18	.04	.02	2.74
	60	25	.01	.01	.02	.02	.03	.03	.04	.05	.10	.15	.20	.05	.03	2.67
	57 60	74	.01	.01	.02	.02	.03	.04	.05	.07	.09	.15	.33	.06	.03	2.74
MASSACHUSETTS																
BOSTON	58	23	.01	.01	.02	.02	.03	.03	.04	.08	.10	.13	.24	.06	.03	2.70
MICHIGAN																
DETROIT	58	25	.01	.01	.02	.02	.02	.03	.03	.05	.10	.12	.22	.05	.03	2.55

TABLE 2.36 — TITANIUM: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location: Region, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter: Min	Frequency Distribution—Percent: 10	20	30	40	50	60	70	80	90	Max	Arith Mean	Geo Mean	Std Geo Dev
MINNESOTA MINNEAPOLIS	58	26			.01	.01	.01	.02	.02	.03	.06	.12	.26	.04		
MISSOURI ST LOUIS	58	24	.02	.01	.02	.03	.04	.06	.09	.11	.12	.18	.26	.08	.05	3.05
NEW HAMPSHIRE MANCHESTER	58	20					.01	.01	.01	.01	.01	.02	.03	.01		
NORTH CAROLINA CHARLOTTE	58	25	.01	.01	.01	.02	.02	.03	.04	.07	.09	.13	.25	.06	.03	2.98
NORTH DAKOTA BISMARCK	58	25	.01		.01	.01	.01	.02	.02	.04	.05	.09	.14	.03		
OHIO CLEVELAND	58	25		.01	.02	.03	.03	.04	.06	.09	.13	.18	1.14	.11	.04	3.01
DAYTON	60	26	.01	.01	.02	.02	.03	.05	.06	.08	.10	.13	.22	.06	.04	2.75
OREGON PORTLAND	58	25		.01	.01	.02	.02	.03	.04	.08	.09	.17	.25	.06	.03	3.21
PENNSYLVANIA PHILADELPHIA	58	21	.01	.01	.02	.02	.03	.06	.09	.10	.12	.14	.16	.07	.04	3.00
PITTSBURGH	60	24	.01	.01	.03	.03	.04	.06	.07	.10	.15	.26	.29	.09	.05	3.17
TENNESSEE NASHVILLE	57	26	.01	.02	.02	.03	.04	.06	.08	.08	.11	.13	.16	.07	.05	2.29
	58	26		.01	.01	.02	.02	.03	.03	.04	.11	.14	.18	.05	.03	2.92
	57 58	52		.01	.01	.02	.03	.04	.06	.08	.11	.14	.18	.06	.03	3.17
TEXAS HOUSTON	58	25				.01	.01	.01	.02	.02	.03	.07	.11	.02		
UTAH SALT LAKE CITY	58	24	.01	.01	.01	.02	.02	.03	.03	.05	.06	.13	.16	.05	.02	2.67
WASHINGTON SEATTLE	57	25	.01	.05	.06	.07	.08	.13	.15	.16	.17	.21	.37	.12	.10	1.83
TACOMA	58	24	.01		.01	.01	.01	.02	.02	.03	.05	.08	.10	.03		
WISCONSIN MILWAUKEE	57	25	.04	.04	.05	.06	.07	.10	.12	.14	.18	.28	.38	.12	.09	2.13
	58	26	.01	.02	.03	.04	.05	.06	.08	.08	.11	.14	.21	.07	.05	2.10
	57 58	51	.01	.03	.04	.05	.06	.08	.09	.11	.14	.20	.38	.10	.07	2.08
WYOMING CHEYENNE	58	24				.01	.01	.01	.02	.02	.02	.03	.11	.02		

TABLE 2.37 — TITANIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.03	.17	.05	.62	.13	.16	.08	.20
MONTGOMERY	59	.07	.09	.03	.04	.01	.08	.03	.02
ALASKA									
ANCHORAGE	58	.54	.39	.46	.55	.15	.45	.14	.34
ARIZONA									
PHOENIX	59	.49	.40	.26	.39	.33	.15	.27	.17
TUCSON	60	.12	.23	.08	.32				
ARKANSAS									
LITTLE ROCK	58	.10	.17	.08	.15	.08	.06	.02	.08
CALIFORNIA									
BERKELEY	59	.08	.17	.10	.10	.02	.08	.08	.11
BURBANK	60	.20	.30	.16	.55				
FRESNO	58	.10	.22	.17	.23	.03	.17	.11	.25
GLENDALE	59	.45	.63	.72	1.50	.14	.16	.37	.50
LONG BEACH	58	.12	.18	.11	.66	.05	.11	.13	.22
OAKLAND	58	.03	.05	.06	.12	.03	.03	.03	.06
RICHMOND	58	.02	.02	.04	.07	.01	.02	.10	.09
SACRAMENTO	58	.04	.02	.14	.15	.02	.03	.12	.17
SAN BERNARDINO	59	.60	.74	.61	.60	.27	.06	.56	.34
SAN DIEGO	58	.03	.02	.01	.15	.02	.02	.02	.09
SAN FRANCISCO	58	.08	.02	.02	.09	.08	.01	.01	.07
SAN JOSE	57	.20	.14	.24	.20	.16	.10	.18	.13
STOCKTON	58	.02	.08	.05	.06	.03	.10	.12	.11
CONNECTICUT									
BRIDGEPORT	60	.06	.02	.08	.12				
HARTFORD	58	.03	.07	.02	.07	.03	.02	.02	.02
NEW BRITAIN	59	.16	.17	.07	.10	.03	.04	.03	.03
NEW HAVEN	58	.02	.01	.01	.08	.03	.04	.02	.02
STAMFORD	57	.03	.29	.26	.26	.08	.11	.18	.07
DELAWARE									
WILMINGTON	58	.25	.17	.20	.11	.12	.11	.14	.08
DIST OF COL									
WASHINGTON D C	58	.13	.10	.07	.07	.10	.07	.01	.13
FLORIDA									
JACKSONVILLE	58	.02	.02	.02	.09	.08	.01	.02	.02
MIAMI	59	.03	.09	.02	.03	.02	.01	.01	.01
ORLANDO	59	.10	.04	.03	.04	.02	.01	.01	.02
GEORGIA									
AUGUSTA	58	.02	.05	.03	.09	.02	.01	.02	.04
COLUMBUS	57	.03	.06	.07	.07	.09	.07	.07	.09
MACON	58	.04	.07	.02	.11	.09	.06	.07	.10
SAVANNAH	59	.03	.24	.07	.09	.01	.03	.01	.02
HAWAII									
HONOLULU	58	.11	.11	.05	.79	.06	.10	.04	.18
IDAHO									
BOISE	58	.12	.08	.08	.18	.12	.09	1.20	.03
ILLINOIS									
PEORIA	58	.03	.00	.11	.10	.02	.03	.06	.09
ROCKFORD	59	.16	.26	.06	.02	.06	.08	.04	.01
INDIANA									
EAST CHICAGO	59	.97	.09	.30	.37	.29	.08	.14	.11
EVANSVILLE	60	.08	.13	.10	.12				
FORT WAYNE	60	.03	.05	.08	.10				
GARY	60	.12	.35	.23	.21				
HAMMOND	59	.18	.28	.29	.14	.09	.17	.08	.09
SOUTH BEND	59	.02	.18	.14	.03	.03	.06	.04	.01
TERRE HAUTE	58	.04	.09	.08	.03				
IOWA									
DAVENPORT	58	.34	.13	.10	.02	.08	.07	.04	.03
KANSAS									
KANSAS CITY	60	.06	.06	.09	.04				
TOPEKA	59	.10	.12	.07	.07	.02	.08	.02	.02
LOUISIANA									
BATON ROUGE	57	.10	.03	.07	.13	.02	.02	.02	.02
SHREVEPORT	59	.09	.10	.11	.19	.02	.03	.03	.02
MAINE									
PORTLAND	58	.20	.15	.09	.02	.10	.09	.07	.04

TABLE 2.37 — TITANIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.03	.03	.02	.01	.04	.02	.02	.03
CAMBRIDGE	59	.18	.15	.17	.09	.07	.07	.07	.03
FALL RIVER	58	.11	.02	.03	.17	.03	.01	.01	.10
LAWRENCE	60	.07	.06	.04	.07				
LOWELL	59	.09	.14	.14	.15	.03	.05	.07	.05
LYNN	60	.06	.01	.02	.07				
NEW BEDFORD	59	.06	.07	.07	.23	.04	.01	.03	.01
QUINCY	58	.12	.05	.05	.02	.02	.02	.04	.03
SOMERVILLE	60	.12	.11	.29	.01				
SPRINGFIELD	60	.10	.11	.17	.01				
WORCESTER	57	.13	.08	.11	.11	.09	.07	.08	.06
MICHIGAN									
DEARBORN	59	.14	.20	.12	.17	.03	.07	.03	.04
FLINT	57	.15	.11	.12	.13	.11	.10	.08	.07
JACKSON	58	.01	.14	.01	.02	.02	.03	.02	.02
KALAMAZOO	60	.13	.21	.14	.21				
LANSING	57	.05	.05	.05	.04	.04	.08	.09	.06
SAGINAW	58	.08	.10	.07	.09	.06	.11	.07	.12
MINNESOTA									
DULUTH	57	.70	.18	.43	.48	.14	.06	.12	.08
MISSISSIPPI									
JACKSON	58	.03	.01	.08	.06	.01	.02	.02	.01
MISSOURI									
KANSAS CITY	58	.11	.11	.24	.04	.18	.08	.18	.09
MONTANA									
HELENA	58	.18	.19	.39	.09	.08	.02	.05	.01
NEBRASKA									
LINCOLN	60	.10	.03	.10	.08				
NEVADA									
LAS VEGAS	58	.28	.08	.08	.12	.10	.05	.06	.08
NEW JERSEY									
ATLANTIC CITY	58	.02	.02	.02	.02	.02	.02	.01	.01
EAST ORANGE	60	.14	.02	.05	.06				
ELIZABETH	58	.04	.07	.04	.08	.02	.09	.04	.04
JERSEY CITY	59	.14	.11	.17	.30	.21	.10	.08	.10
NEWARK	59	.10	.10	.06	.14	.02	.03	.03	.06
NEW MEXICO									
ALBUQUERQUE	58	.23	.21	.18	.22	.04	.04	.05	.14
NEW YORK									
BINGHAMTON	60	.04	.04	.05	.03				
ELMIRA	60	.02	.21	.01	.09				
NEW YORK CITY	60	.28	.36	.24	.25				
SCHENECTADY	60	.08	.03	.02	.04				
SYRACUSE	60	.11	.23	.12	.13				
UTICA	60	.07	.02	.06	.12				
NORTH CAROLINA									
GREENSBORO	58	.12	.06	.07	.13	.03	.07	.04	.04
RALEIGH	59	.17	.08	.11	.11	.05	.04	.02	.05
WINSTON SALEM	57	.37	.17	.14	.13	.21	.13	.14	.09
OHIO									
AKRON	60	.14	.04	.13	.20				
CANTON	59	.13	.24	.17	.20	.08	.14	.09	.11
CINCINNATI	58	.15	.16	.12	.17	.05	.07	.03	.10
COLUMBUS	58	.09	.12	.03	.03	.06	.06	.02	.04
HAMILTON	59	.16	.16	.14	.21	.06	.07	.07	.04
LORAIN	57	.13	.09	.14	.36	.09	.18	.07	.20
SPRINGFIELD	58	.11	.12	.02	.19	.04	.06	.07	.04
TOLEDO	57	.14	.12	.25	.34	.10	.05	.11	.10
YOUNGSTOWN	58	.11	.24	.13	.13	.06	.09	.06	.07
OKLAHOMA									
OKLAHOMA CITY	58	.01	.02	.02	.02	.01	.02	.03	.01

TABLE 2.37 — TITANIUM: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PENNSYLVANIA									
ALLENTOWN	59	.40	.26	.12	.21	.11	.13	.09	.11
HARRISBURG	58	.25	.13	.04	.23	.09	.06	.02	.08
JOHNSTOWN	59	.45	.27	.02	.22	.17	.19	.07	.11
READING	58	.01	.10	.23	.21	.03	.03	.11	.11
SCRANTON	57	.14	.27	.11	.28	.03	.09	.09	.12
WILKES BARRE	58	.02	.02	.12	.13	.02	.02	.03	.02
YORK	59	.12	.12	.12	.14	.07	.11	.04	.05
PUERTO RICO									
SAN JUAN	59	.01	.09	.13	.12	.02	.03	.04	.02
RHODE ISLAND									
PROVIDENCE	58	.03	.18	.02	.04	.03	.03	.03	.04
SOUTH CAROLINA									
CHARLESTON	59	.03	.04	.02	.03	.01	.01	.01	.01
COLUMBIA	57	.11	.09	.12	.11	.05	.03	.03	.09
GREENVILLE	57	.24	.24	.34	.25	.16	.10	.25	.20
SOUTH DAKOTA									
SIOUX FALLS	58	.01	.09	.06	.02	.08	.03	.02	.02
TENNESSEE									
CHATTANOOGA	58	.66	.07	.07	.16	.11	.03	.04	.16
KNOXVILLE	59	.10	.13	.09	.13	.07	.07	.02	.02
MEMPHIS	58	.01	.01	.02	.03	.02	.02	.02	.01
TEXAS									
AUSTIN	58	.11	.01	.08	.05	.06	.06	.03	.04
BEAUMONT	59	.03	.02	.01	.01	.01	.02	.01	.01
CORPUS CHRISTI	60	.07	.05	.02	.01				
EL PASO	57	.27	.62	.20	.27	.07	.14	.08	.16
FORT WORTH	58	.07	.13	.09	.02	.06	.02	.06	.02
GALVESTON	59	.01	.07	.01	.06	.02	.03	.01	.02
SAN ANTONIO	58	.33	.07	.14	.29	.08	.06	.08	.12
TEXAS CITY	59	.02	.01	.02	.03	.01	.01	.01	.02
WACO	53	.09	.02	.01	.02	.01	.04	.04	.03
VERMONT									
BURLINGTON	58	.01	.07	.01	.01	.01	.02	.01	.02
VIRGINIA									
DANVILLE	60	.15	.11	.09	.42				
HAMPTON	58	.03	.03	.04	.03	.03	.02	.05	.02
NORFOLK	58	.30	.09	.11	.13				
RICHMOND	57	.26	.09	.14	.14	.11	.05	.08	.06
ROANOKE	59	.12	.07	.08	.29	.05	.03	.02	.03
WEST VIRGINIA									
CHARLESTON	58	.28	.47	.35	.69	.19	.15	.08	.13
HUNTINGTON	58	.09	.02	.01	1.60	.01	.01	.01	.03
WHEELING	59	.23	.15	.12	.23	.14	.10	.04	.15
WISCONSIN									
MADISON	59	.09	.17	.11	.09	.01	.03	.03	.03
RACINE	60	.10	.08	.13	.10				

TABLE 2.38 — ZINC: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES

Location: Pegion, State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
NATIONAL	57 60	619				.01	.01	.01	.54	.70	.89	1.28	8.40	.46		
NEW ENGLAND	58	43					.01	.01	.01	.56	.71	1.15	6.90	.43		
MID ATLANTIC	58 60	45			.01	.56	.75	.86	.97	1.16	1.55	1.55	4.50	.88		
MID EAST	57 60	99			.01	.01	.42	.54	.61	.74	.90	1.29	2.00	.53		
SOUTH EAST	57 58	119				.01	.01	.01	.01	.59	.75	1.22	8.40	.51		
MID WEST	57 60	172				.01	.01	.55	.69	.85	1.08	1.35	2.70	.53		
GREAT PLAINS	58	123					.01	.01	.01	.65	.84	1.36	8.20	.44		
GULF SOUTH	58	50					.01	.01	.01	.01	.53	.67	2.50	.19		
ROCKY MOUNTAIN	58	73						.01	.01	.01	.01	.75	1.40	.12		
PACIFIC COAST	57 58	95				.01	.01	.56	.67	.81	1.05	1.46	5.10	.58		
ALABAMA																
BIRMINGHAM	58	21				.01	.01	.75	.90	1.65	1.86	2.23	8.40	1.29		
CALIFORNIA																
LOS ANGELES	58	21			.01	.01	.44	.75	.96	1.08	1.36	1.55	2.00	.72		
COLORADO																
DENVER	58	25				.01	.01	.01	.01	.67	.75	1.02	1.40	.30		
FLORIDA																
TAMPA	58	26					.01	.01	.01	.01	.41	.58	.96	.14		
GEORGIA																
ATLANTA	58	20				.01	.01	.01	.75	1.08	1.22	1.71	7.90	.88		
ILLINOIS																
CHICAGO	58	21			.01	.01	.75	.99	1.15	1.29	1.55	2.05	2.40	.93		
INDIANA																
INDIANAPOLIS	58	24					.01	.01	.01	.01	.05	.90	1.10	.18		
IOWA																
DES MOINES	58	26						.01	.01	.01	.01	.01	.79	.04		
KANSAS																
WICHITA	58	22		.01	.01	.65	.66	.71	.74	.80	.95	1.08	1.10	.64	.29	6.21
LOUISIANA																
NEW ORLEANS	58	25						.01	.01	.01	.01	.58	.65	.09		
MARYLAND																
BALTIMORE	57	24		.01	.44	.49	.56	.63	.75	.99	1.29	1.71	1.90	.77	.47	4.27
	58	25			.01	.53	.58	.67	.75	.86	.99	1.29	2.00	.65		
	60	25				.01	.01	.55	.59	.69	.90	1.55	1.60	.48		
	57 60	74			.01	.01	.54	.60	.66	.84	1.06	1.55	2.00	.63		
MASSACHUSETTS																
BOSTON	58	23				.01	.01	.58	.69	.85	1.06	1.29	6.90	.73		
MICHIGAN																
DETROIT	58	25				.01	.01	.01	.71	.96	1.06	1.42	1.80	.50		

TABLE 2.38 — ZINC: URBAN, CUMULATIVE REGIONAL AND NATIONAL AND YEARLY STATION SUMMARIES — Continued

Location Region State or Station	Years	Number of Samples	Micrograms Per Cubic Meter													Std Geo Dev
			Min	Frequency Distribution—Percent									Max	Arith Mean	Geo Mean	
				10	20	30	40	50	60	70	80	90				
MINNESOTA																
MINNEAPOLIS	58	26						.01	.01	.01	.01	.01				
MISSOURI																
ST LOUIS	58	24		.01	.80	.90	1.19	1.38	1.55	1.66	2.25	2.67	6.20	1.61	.83	4.70
NEW HAMPSHIRE																
MANCHESTER	58	20						.01	.01	.01	.01	.53	.69	.08		
NORTH CAROLINA																
CHARLOTTE	58	25				.01	.01	.01	.01	.49	.58	.83	.98	.23		
NORTH DAKOTA																
BISMARCK	58	25						.01	.01	.01	.01	.01	.48	.01		
OHIO																
CLEVELAND	58	25			.01	.01	.53	.83	.96	1.29	1.46	1.76	2.70	.81		
DAYTON	60	26			.01	.01	.63	.68	.73	.80	.99	1.15	1.60	.56		
OREGON																
PORTLAND	58	25				.01	.01	.01	.01	1.08	1.42	2.05	5.10	.67		
PENNSYLVANIA																
PHILADELPHIA	58	21		.01	.01	.53	.58	.75	.81	.87	.99	1.19	1.40	.63	.29	6.63
PITTSBURGH	60	24			.01	.01	.96	1.06	1.22	1.39	1.50	2.45	4.50	1.09		
TENNESSEE																
NASHVILLE	57	26				.01	.01	.49	.55	.58	.63	.75	1.00	.36		
	58	26						.01	.01	.01	.01	.71	1.00	.15		
	57 58	52				.01	.01	.01	.01	.53	.63	.75	1.00	.25		
TEXAS																
HOUSTON	58	25					.01	.01	.01	.53	.63	.83	2.50	.28		
UTAH																
SALT LAKE CITY	58	24						.01	.01	.01	.01	.01	.90	.03		
WASHINGTON																
SEATTLE	57	25	.46	.56	.59	.63	.69	.78	.83	.90	1.06	1.29	1.70	.81	.78	1.39
TACOMA	58	24					.01	.01	.01	.01	.01	.63	.75	.11		
WISCONSIN																
MILWAUKEE	57	25			.01	.01	.53	.58	.61	.80	.90	1.29	1.40	.54		
	58	26					.01	.01	.01	.58	.71	.83	1.10	.26		
	57 58	51				.01	.01	.01	.58	.66	.81	1.16	1.40	.40		
WYOMING																
CHEYENNE	58	24						.01	.01	.01	.01	.01	.86	.03		

TABLE 2.39 — ZINC: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
ALABAMA									
MOBILE	58	.00	.00	.00	1.20	.63	.80	.00	.97
MONTGOMERY	59	.94	.71	.50	.71				
ALASKA									
ANCHORAGE	58	.00	.00	.00	.00	.00	.58	.00	.00
ARIZONA									
PHOENIX	59	1.00	.95	.60	.66	.85	.00	.55	.00
TUCSON	60	.00	.52	.00	.58				
ARKANSAS									
LITTLE ROCK	58	.00	.00	.00	.00	.77	.00	.46	.44
CALIFORNIA									
BERKELEY	59	2.90	.98	.51	1.10	.70	.62	.00	.74
BURBANK	60	.74	.72	.64	.00				
FRESNO	58	.00	.96	.74	.87	.44	.55	.00	.00
GLENDALE	59	1.20	1.50	1.70	1.10	.55	.53	1.10	.66
LONG BEACH	58	.00	.70	.00	.89	.76	.54	.94	.85
OAKLAND	58	1.70	.88	2.30	2.10	.85	.51	.96	1.80
RICHMOND	58	.59	.55	1.20	.72	.95	.44	.84	1.00
SACRAMENTO	58	.68	.55	.00	.57	.00	.00	.73	.61
SAN BERNARDINO	59	.63	.87	.86	1.20	.00	.64	.68	.64
SAN DIEGO	58	.00	.00	.00	.00	.00	.00	.00	.00
SAN FRANCISCO	58	.83	.61	.00	.66	.83	.50	.00	.54
SAN JOSE	57	.89	.00	1.00	2.30	.58	.64	.87	.82
STOCKTON	58	.47	.54	.65	.55	.00	.58	.81	.56
CONNECTICUT									
BRIDGEPORT	60	2.70	.83	.87	2.30				
HARTFORD	58	.58	.00	.00	.54	.61	.66	.40	.45
NEW BRITAIN	59	4.10	.80	.94	1.00	.96	.82	.94	.48
NEW HAVEN	58	.00	.00	.00	.72	.81	.87	.59	.68
STAMFORD	57	1.40	1.90	.97	1.60	.56	.67	.66	.66
DELAWARE									
WILMINGTON	58	3.10	1.70	1.50	1.40	1.00	.82	.85	.56
DIST OF COL									
WASHINGTON D C	58	.00	.56	.00	.00	.00	.00	.00	.00
FLORIDA									
JACKSONVILLE	58	.00	.00	.00	.00	.73	.51	.54	.60
MIAMI	59	.72	.00	.61	.00	.00	.00	.00	.00
ORLANDO	59	.97	.57	.55	.83				
GEORGIA									
AUGUSTA	58	.91	.00	.00	.00	.67	.57	.00	.00
COLUMBUS	57	92	.95	.82	.92	.64	.61	.61	.78
MACON	58	.00	.59	.00	.75	.61	.53	.61	.64
SAVANNAH	59	.52	.96	.52	.63	.52	.48	.41	.00
HAWAII									
HONOLULU	58	.50	.00	.67	.60	.61	.00	.00	.79
IDAHO									
BOISE	58	.00	.00	.00	.00	.00	.00	.00	.00
ILLINOIS									
PEORIA	58	1.00	.00	.00	1.20	.92	.47	.69	1.30
ROCKFORD	59	.58	.61	.56	.00	.00	.00	.00	.47
INDIANA									
EAST CHICAGO	59	5.30	4.30	1.30	.95	2.10	1.20	.62	1.30
EVANSVILLE	60	.72	.90	.00	.86				
FORT WAYNE	60	.58	.00	.68	.79				
GARY	60	10.00	.81	.80	14.00				
HAMMOND	59	1.50	2.90	1.40	1.50	.68	2.10	.00	.80
SOUTH BEND	59	2.80	1.20	1.20	2.40	.77	.76	.66	.86
TERRE HAUTE	58	.63	.00	.00	.00				
IOWA									
DAVENPORT	58	.86	.00	.66	.00	.00	.67	.61	.57
KANSAS									
KANSAS CITY	60	.00	.63	1.40	.63				
TOPEKA	59	.00	.77	.00	.00	.44	.45	.00	.00
LOUISIANA									
BATON ROUGE	57	.00	.00	.00	.67	.00	.53	.53	.71
SHREVEPORT	59	.00	.00	.00	.84	.00	.00	.51	.00

TABLE 2.39 — ZINC: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
MASSACHUSETTS									
BROCKTON	58	.59	.53	.00	.00	.00	.00	.00	.00
CAMBRIDGE	59	1.70	.95	.78	1.50	2.00	.97	.40	.44
FALL RIVER	58	.00	.49	.00	.00	.00	.00	.00	.00
LAWRENCE	60	.72	.58	.90	1.20				
LOWELL	59	.80	.70	1.40	.81				
LYNN	60	.64	.62	.61	1.20				
NEW BEDFORD	59	.49	.45	.56	.60	.56	.00	.50	.57
QUINCY	58	1.00	.00	.00	.00	.61	.00	.00	.00
SOMERVILLE	60	1.10	1.70	.87	.72				
SPRINGFIELD	60	.68	1.00	1.70	1.10				
WORCESTER	57	.74	.60	.00	1.30	.69	.59	.46	.48
MICHIGAN									
DEARBORN	59	.77	1.10	.93	1.60	.00	.58	.70	.93
FLINT	57	1.00	1.10	3.80	2.80	.69	.76	1.70	.93
JACKSON	58	.00	.00	.00	.82	.00	.00	.00	.45
KALAMAZOO	60	.52	.74	.50	.87				
LANSING	57	.69	.83	.84	.78	.45	.55	.57	.64
SAGINAW	58	.00	.61	.99	.38	.62	.64	.60	.71
MINNESOTA									
DULUTH	57	1.30	.51	1.20	.69				
MISSISSIPPI									
JACKSON	58	.71	.00	1.60	5.50	.63	.65	.84	1.00
MONTANA									
HELENA	58	.68	.49	.70	.00	.74	.00	.00	.51
NEBRASKA									
LINCOLN	60	.67	.00	.00	.00				
OMAHA	58	.00	.00	.00	.00	.00	.00	.00	.00
NEVADA									
LAS VEGAS	58	.00	.00	.00	.00	.00	.48	.55	.55
NEW JERSEY									
ATLANTIC CITY	58	.00	.00	.00	.00	.00	.00	.00	.00
EAST ORANGE	60	3.00	.63	.66	1.80				
ELIZABETH	58	.48	1.00	.51	1.00	1.10	2.00	.56	.69
JERSEY CITY	59	2.10	1.30	1.40	1.70	1.60	1.60	.91	1.20
NEWARK	59	3.30	1.80	.77	3.50	.58	.69	.55	1.20
NEW MEXICO									
ALBUQUERQUE	58	.00	.00	1.00	.00	.00	.00	.00	.00
NEW YORK									
BINGHAMTON	60	1.00	.71	.88	.81				
ELMIRA	60	1.20	1.70	.00	1.70				
NEW YORK CITY	60	1.30	1.70	3.60	1.00				
SCHENECTADY	60	.72	.83	.65	.64				
SYRACUSE	60	.95	.96	.87	.97				
UTICA	60	.65	.49	.00	.64				
NORTH CAROLINA									
GREENSBORO	58	.00	.00	.00	.00	.00	.54	.00	.42
RALEIGH	59	.62	.45	.38	.57	.76	.00	.00	.00
WINSTON SALEM	57	.61	.50	.37	.59	.80	.54	.50	.60
OHIO									
AKRON	60	1.60	.67	.68	2.90				
CANTON	59	.99	1.40	1.00	2.60	.77	1.10	.80	1.10
CINCINNATI	58	5.80	3.70	3.10	5.00	1.20	.71	1.30	1.80
COLUMBUS	58	.00	.00	.00	1.60	.90	.68	.65	.87
HAMILTON	59	.61	.89	.66	.98	.59	.00	.55	.57
LORAIN	57	.77	.00	1.10	1.70	.76	.81	.88	2.00
SPRINGFIELD	58	.70	.00	.00	.86	.67	.54	.61	.71
TOLEDO	57	.91	.73	1.60	1.90	.76	.00	.76	1.60
YOUNGSTOWN	58	.63	1.60	1.60	.93	.76	.96	2.60	1.40
OKLAHOMA									
OKLAHOMA CITY	58	.00	.50	.00	.60	.59	.00	.51	.00
PENNSYLVANIA									
ALLENTOWN	59	2.40	1.60	1.30	3.60	.63	.71	.59	1.50
HARRISBURG	58	2.50	3.70	.00	1.70	2.60	1.10	.65	1.30
JOHNSTOWN	59	1.10	2.70	.64	.92	.90	1.20	.60	.00
READING	58	.59	.58	1.20	1.60	.58	.53	.87	1.10
SCRANTON	57	.64	.78	.64	1.70	.62	.52	.00	.83
WILKES BARRE	58	.75	.61	.00	.00	.65	.54	.57	.47
YORK	59	4.00	.96	.56	1.00	.72	1.00	.00	.50

TABLE 2.39 — ZINC: URBAN STATIONS, QUARTERLY HEAVY AND QUARTERLY COMPOSITE — Continued

Station Location	Years	Micrograms Per Cubic Meter							
		Quarterly Heavy				Quarterly Composite			
		Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
PUERTO RICO									
SAN JUAN	59	.00	.00	.73	.63	.00	.00	.00	.00
RHODE ISLAND									
PROVIDENCE	58	.88	.00	.95	1.50	.84	.48	.74	1.30
SOUTH CAROLINA									
CHARLESTON	59	.72	.62	.51	.53	.79	.00	.54	.00
COLUMBIA	57	.81	.80	1.10	.86	.97	.59	.55	.82
GREENVILLE	57	.73	.72	.79	.00	.74	.62	.72	.92
SOUTH DAKOTA									
SIOUX FALLS	58	.00	.00	.00	.00	.00	.00	.00	.00
TENNESSEE									
CHATTANOOGA	56	1.10	.62	.93	1.20	.63	.53	.66	1.60
KNOXVILLE	59	.62	.72	.67	1.00				
MEMPHIS	58	.00	.00	.00	.00	.52	.53	.42	.48
TEXAS									
AUSTIN	58	.54	.00	.00	.00	.50	.51	.54	.45
BEAUMONT	59	.62	.68	.70	.75	.00	.53	.00	.00
CORPUS CHRISTI	60	.56	.64	.54	.00				
DALLAS	58	.00	.00	.00	.00	.00	.65	.00	.71
EL PASO	57	2.60	1.90	.69	3.50	1.50	.62	.85	3.40
FORT WORTH	58	.70	.55	.66	.00	.58	.44	.55	.43
GALVESTON	59	.00	.00	.00	.66	.00	.00	.00	.44
SAN ANTONIO	58	.00	.00	.00	.00	.00	.00	.00	.50
TEXAS CITY	59	.00	.00	.00	.00	.00	.00	.00	.62
VERMONT									
BURLINGTON	58	.00	.00	.00	.00	.00	.00	.00	.00
VIRGINIA									
DANVILLE	60	.00	.00	.00	.91				
HAMPTON	58	.00	.00	.00	.00	.00	.00	.00	.00
NORFOLK	56	.00	.72	.00	.57	.62	.54	.50	.57
RICHMOND	57	1.60	.00	.96	.93	.90	.60	.63	.67
ROANOKE	59	6.40	3.80	1.50	4.80	.83	.58	1.70	1.50
WEST VIRGINIA									
CHARLESTON	58	.70	.91	.91	1.40	.68	.63	.63	.78
HUNTINGTON	58	1.30	.91	.70	5.60	.61	1.00	.00	.47
WHEELING	59	.90	1.00	.90	4.00	.83	1.20	.84	1.40
WISCONSIN									
MADISON	59	.00	.73	.00	.00	.00	.00	.00	.00
RACINE	60	1.00	.62	1.30	.97				

TABLE 2.40 — ANTIMONY: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples		Maximum
		Collected	Above Detectable Quantity	
ALABAMA				
BIRMINGHAM	58	21	1	.120
CALIFORNIA				
LOS ANGELES	58	21	1	.087
COLORADO				
DENVER	58	25		
FLORIDA				
TAMPA	58	26		
GEORGIA				
ATLANTA	58	20	2	.170
ILLINOIS				
CHICAGO	58	21		
INDIANA				
INDIANAPOLIS	58	24	1	.170
IOWA				
DES MOINES	58	26		
KANSAS				
WICHITA	58	22		
LOUISIANA				
NEW ORLEANS	58	25		
MARYLAND				
BALTIMORE	57	24	6	.073
	58	25	2	.076
	60	25	12	.230
	57 60	74	20	.230
MASSACHUSETTS				
BOSTON	58	23		
MICHIGAN				
DETROIT	58	25		
MINNESOTA				
MINNEAPOLIS	58	26		
MISSOURI				
ST LOUIS	58	24		
NEW HAMPSHIRE				
MANCHESTER	58	20		
NORTH CAROLINA				
CHARLOTTE	58	25	1	.110
NORTH DAKOTA				
BISMARCK	58	25		
OHIO				
CLEVELAND	58	25		
DAYTON	60	26	6	.085
OREGON				
PORTLAND	58	25	2	.052
PENNSYLVANIA				
PHILADELPHIA	58	21	2	.110
PITTSBURGH	60	24	7	.100
TENNESSEE				
NASHVILLE	57	26	1	.052
	58	26		
	57 58	52	1	.052
TEXAS				
HOUSTON	58	25	2	.054
UTAH				
SALT LAKE CITY	58	24		
WASHINGTON				
SEATTLE	57	25	5	.072
TACOMA	58	24	2	.120
WISCONSIN				
MILWAUKEE	57	25	4	.130
	58	26		
	57 58	51	4	.130
WYOMING				
CHEYENNE	58	24		

TABLE 2.41 — BISMUTH: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples		Maximum
		Collected	Above Detectable Quantity	
ALABAMA				
BIRMINGHAM	58	21	1	.002
CALIFORNIA				
LOS ANGELES	58	21		
COLORADO				
DENVER	58	25	1	.003
FLORIDA				
TAMPA	58	26		
GEORGIA				
ATLANTA	58	20		
ILLINOIS				
CHICAGO	58	21		
INDIANA				
INDIANAPOLIS	58	24		
IOWA				
DES MOINES	58	26		
KANSAS				
WICHITA	58	22		
LOUISIANA				
NEW ORLEANS	58	25		
MARYLAND				
BALTIMORE	57	24	3	.004
	58	25		
	60	25	9	.006
	57 60	74	12	.006
MASSACHUSETTS				
BOSTON	58	23		
MICHIGAN				
DETROIT	58	25		
MINNESOTA				
MINNEAPOLIS	58	26		
MISSOURI				
ST LOUIS	58	24		
NEW HAMPSHIRE				
MANCHESTER	58	20		
NORTH CAROLINA				
CHARLOTTE	58	25		
NORTH DAKOTA				
BISMARCK	58	25		
OHIO				
CLEVELAND	58	25	1	.010
DAYTON	60	26	5	.004
OREGON				
PORTLAND	58	25		
PENNSYLVANIA				
PHILADELPHIA	58	21	1	.002
PITTSBURGH	60	24	3	.008
TENNESSEE				
NASHVILLE	57	26		
	58	26		
	57 58	52		
TEXAS				
HOUSTON	58	25		
UTAH				
SALT LAKE CITY	58	24	1	.009
WASHINGTON				
SEATTLE	57	25	6	.011
TACOMA	58	24	4	.032
WISCONSIN				
MILWAUKEE	57	25		
	58	26		
	57 58	51		
WYOMING				
CHEYENNE	58	24		

TABLE 2.42 — CADMIUM: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples: Collected	Number of Samples: Above Detectable Quantity	Maximum
ALABAMA				
BIRMINGHAM	58	21	5	.018
CALIFORNIA				
LOS ANGELES	58	21	5	.020
COLORADO				
DENVER	58	25	5	.087
FLORIDA				
TAMPA	58	26		
GEORGIA				
ATLANTA	58	20	6	.044
ILLINOIS				
CHICAGO	58	21	4	.017
INDIANA				
INDIANAPOLIS	58	24	5	.040
IOWA				
DES MOINES	58	26	1	.009
KANSAS				
WICHITA	58	22		
LOUISIANA				
NEW ORLEANS	58	25	2	.019
MARYLAND				
BALTIMORE	57	24	4	.034
	58	25	2	.018
	60	25	5	.044
	57 60	74	11	.044
MASSACHUSETTS				
BOSTON	58	23		
MICHIGAN				
DETROIT	58	25	2	.051
MINNESOTA				
MINNEAPOLIS	58	26	1	.027
MISSOURI				
ST LOUIS	58	24	12	.150
NEW HAMPSHIRE				
MANCHESTER	58	20		
NORTH CAROLINA				
CHARLOTTE	58	25		
NORTH DAKOTA				
BISMARCK	58	25		
OHIO				
CLEVELAND	58	25	11	.110
DAYTON	60	26	5	.019
OREGON				
PORTLAND	58	25	5	.028
PENNSYLVANIA				
PHILADELPHIA	58	21	4	.016
PITTSBURGH	60	24	6	.067
TENNESSEE				
NASHVILLE	57	26	1	.016
	58	26	1	.013
	57 58	52	2	.016
TEXAS				
HOUSTON	58	25	1	.026
UTAH				
SALT LAKE CITY	58	24	4	.028
WASHINGTON				
SEATTLE	57	25	4	.011
TACOMA	58	24	5	.170
WISCONSIN				
MILWAUKEE	57	25	3	.043
	58	26	1	.013
	57 58	51	4	.043
WYOMING				
CHEYENNE	58	24		

TABLE 2.43 — COBALT: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples: Collected	Number of Samples: Above Detectable Quantity	Maximum
ALABAMA				
BIRMINGHAM	58	21		
CALIFORNIA				
LOS ANGELES	58	21		
COLORADO				
DENVER	58	25		
FLORIDA				
TAMPA	58	26		
GEORGIA				
ATLANTA	58	20		
ILLINOIS				
CHICAGO	58	21		
INDIANA				
INDIANAPOLIS	58	24		
IOWA				
DES MOINES	58	26		
KANSAS				
WICHITA	58	22		
LOUISIANA				
NEW ORLEANS	58	25		
MARYLAND				
BALTIMORE	57	24		
	58	25		
	60	25		
	57 60	74		
MASSACHUSETTS				
BOSTON	58	23		
MICHIGAN				
DETROIT	58	25		
MINNESOTA				
MINNEAPOLIS	58	26		
MISSOURI				
ST LOUIS	58	24		
NEW HAMPSHIRE				
MANCHESTER	58	20		
NORTH CAROLINA				
CHARLOTTE	58	25		
NORTH DAKOTA				
BISMARCK	58	25		
OHIO				
CLEVELAND	58	25		
DAYTON	60	26		
OREGON				
PORTLAND	58	25		
PENNSYLVANIA				
PHILADELPHIA	58	21		
PITTSBURGH	60	24		
TENNESSEE				
NASHVILLE	57	26		
	58	26		
	57 58	52		
TEXAS				
HOUSTON	58	25		
UTAH				
SALT LAKE CITY	58	24		
WASHINGTON				
SEATTLE	57	25		
TACOMA	58	24		
WISCONSIN				
MILWAUKEE	57	25		
	58	26		
	57 58	51		
WYOMING				
CHEYENNE	58	24		

TABLE 2.44 — MOLYBDENUM: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples		Maximum
		Collected	Above Detectable Quantity	
ALABAMA				
BIRMINGHAM	58	21	11	0.14
CALIFORNIA				
LOS ANGELES	58	21	7	0.02
COLORADO				
DENVER	58	25	24	0.34
FLORIDA				
TAMPA	58	26	3	0.01
GEORGIA				
ATLANTA	58	20	6	0.02
ILLINOIS				
CHICAGO	58	21	18	0.02
INDIANA				
INDIANAPOLIS	58	24	21	0.02
IOWA				
DES MOINES	58	26	12	0.01
KANSAS				
WICHITA	58	22	6	0.01
LOUISIANA				
NEW ORLEANS	58	25	6	0.01
MARYLAND				
BALTIMORE	57	24	22	0.10
	58	25	16	0.16
	60	25	20	0.14
	57 60	74	58	0.16
MASSACHUSETTS				
BOSTON	58	23	10	0.10
MICHIGAN				
DETROIT	58	25	12	0.02
MINNESOTA				
MINNEAPOLIS	58	26	11	0.06
MISSOURI				
ST LOUIS	58	24	22	0.04
NEW HAMPSHIRE				
MANCHESTER	58	20	9	0.01
NORTH CAROLINA				
CHARLOTTE	58	25	9	0.02
NORTH DAKOTA				
BISMARCK	58	25	8	0.01
OHIO				
CLEVELAND	58	25	20	0.08
DAYTON	60	26	17	0.03
OREGON				
PORTLAND	58	25	12	0.03
PENNSYLVANIA				
PHILADELPHIA	58	21	16	0.02
PITTSBURGH	60	24	24	0.25
TENNESSEE				
NASHVILLE	57	26	15	0.12
	58	26	14	0.03
	57 58	52	29	0.12
TEXAS				
HOUSTON	58	25	11	0.02
UTAH				
SALT LAKE CITY	58	24	14	0.05
WASHINGTON				
SEATTLE	57	25	6	0.03
TACOMA	58	24	8	0.02
WISCONSIN				
MILWAUKEE	57	25	20	0.04
	58	26	19	0.02
	57 58	51	39	0.04
WYOMING				
CHEYENNE	58	24	9	0.01

TABLE 2.45 — VANADIUM: URBAN, YEARLY STATION SUMMARIES

Station Location	Years	Number of Samples		Maximum
		Collected	Above Detectable Quantity	
ALABAMA				
BIRMINGHAM	58	21	10	.014
CALIFORNIA				
LOS ANGELES	58	21	20	.074
COLORADO				
DENVER	58	25	9	.250
FLORIDA				
TAMPA	58	26	22	.040
GEORGIA				
ATLANTA	58	20	4	.011
ILLINOIS				
CHICAGO	58	21	21	.160
INDIANA				
INDIANAPOLIS	58	24	12	.032
IOWA				
DES MOINES	58	26	10	.010
KANSAS				
WICHITA	58	22	8	.015
LOUISIANA				
NEW ORLEANS	58	25	18	.033
MARYLAND				
BALTIMORE	57	24	24	.570
	58	25	25	.480
	60	25	24	1.000
	57 60	74	73	1.000
MASSACHUSETTS				
BOSTON	58	23	23	1.200
MICHIGAN				
DETROIT	58	25	12	.170
MINNESOTA				
MINNEAPOLIS	58	26	12	.077
MISSOURI				
ST LOUIS	58	24	18	.320
NEW HAMPSHIRE				
MANCHESTER	58	20	20	.390
NORTH CAROLINA				
CHARLOTTE	58	25	15	.130
NORTH DAKOTA				
BISMARCK	58	25	6	.006
OHIO				
CLEVELAND	58	25	12	.014
DAYTON	60	26	6	.013
OREGON				
PORTLAND	58	25	25	.190
PENNSYLVANIA				
PHILADELPHIA	58	21	21	.330
PITTSBURGH	60	24	5	.032
TENNESSEE				
NASHVILLE	57	26	16	.100
	58	26	7	.240
	57 58	52	23	.240
TEXAS				
HOUSTON	58	25	5	.012
UTAH				
SALT LAKE CITY	58	24	2	.014
WASHINGTON				
SEATTLE	57	25	25	.130
TACOMA	58	24	21	.044
WISCONSIN				
MILWAUKEE	57	25	25	.048
	58	26	21	.053
	57 58	51	46	.053
WYOMING				
CHEYENNE	58	24	4	.007

PART 3—SAMPLING SITE DESCRIPTION AND PARTICIPATING ORGANIZATION

Based upon data supplied by the local operating agency, urban stations are classified with respect to the general area in which they are located: commercial (C), industrial (I), or residential (R). For stations located in areas that encompass two or more of these categories, the appropriate letters are shown. Following the area code letter is the height (in feet) of the air sampler above ground level. The population category (PC) indicates population (based upon the 1960 census) according to the following classification:

Population range	*Category*
More than 3,000,000	1
1,000,000–3,000,000	2
700,000–1 million	3
400,000–700,000	4
100,000–400,000	5
50,000–100,000	6
25,000–50,000	7
10,000–25,000	8

Nonurban stations are classified according to the following geographic and land-use categories: Atlantic coast, Great Lakes coast, Gulf coast, Pacific coast, desert, farmland, forest, or mountain. The height of the air sampler above mean sea level is also given for each station. Area designations are not always clear cut; for example, a mountain site may also be a forested area.

A few of the stations are designated by an asterisk. This indicates that, while the station may have been a part of the Network, no values are given because data were not sufficient to meet the criteria in part 2.

NATIONAL AIR SAMPLING NETWORK STATIONS

URBAN STATIONS

ALABAMA

Birmingham—C R, 40 ft., PC 5, University Medical and Dental Building, 619 South 19th Street; Jefferson County Health Department.

Mobile—C R, 45 ft., PC 5, Central Fire Station, 701 St. Francis Street; Mobile County Board of Health.

Montgomery—C R, 40 ft., PC 5, Montgomery County Health Center, 515 West Jefferson Davis Avenue; Montgomery County Health Department.

ALASKA

Anchorage—C, 26 ft., PC 7, Arctic Health Research Center, Sixth Avenue and K Street; Public Health Service.

ARIZONA

Phoenix—R, 15 ft., PC 4, County Health Department Building, 1825 East Roosevelt Street; Maricopa County Health Department.

Tucson—C R, 16 ft., PC 5, Mechanics Arts Building, University of Arizona, Mountain Avenue and Second Street; Department of Civil Engineering, University of Arizona.

ARKANSAS

Little Rock—C, 40 ft., PC 5, State Board of Health Building, Capitol Mall; State Board of Health.

CALIFORNIA

Berkeley—C R, Ground Level, PC 5, University of California Agriculture Research Station, Virginia and Walnut Streets; State Department of Health.

Burbank—C R, 7 ft., PC 6, 1508 Burbank Boulevard; Los Angeles County Air Pollution Control District.

Fresno—C, 45 ft., PC 5, County School Administration Building, 2314 Mariposa Street; County of Fresno Department of Public Health.

Glendale—I C R, Ground Level, PC 5, Electric power substation, 145 North Howard Street; Glendale Department of Public Service.

Long Beach—C R, 25 ft., PC 5, City Health Department Building, 2655 Pine Avenue; City Department of Public Health.

Los Angeles—I C, 80 ft., PC 2, LACAPCD Headquarters Building, 434 South San Pedro Street; Los Angeles County Air Pollution Control District.

Oakland—I C, 69 ft., PC 5, County Headquarters Building, 499 Fifth Street; Alameda County Health Department.

Pasadena—C R, Ground Level, PC 5, 862 East Villa Street; Los Angeles County Air Pollution Control District.

Richmond—C, 49 ft., PC 6, County Building, 100 37th Street; Contra Costa County Health Department.

Sacramento—C R, 10 ft., PC 5, Health Center, 2221 Stockton Boulevard; Sacramento County Health Department.

San Bernardino—C, 110 ft., PC 6, Court House, 172 West Court Street; San Bernardino County Air Pollution Control District.

San Diego—C, 42 ft., PC 4, City Public Library, 820 East Street; County Department of Public Health.

San Francisco—C, 32 ft., PC 3, Health Department Building, 101 Grove Street; San Francisco Health Department.

San Jose—C R, 14 ft., PC 5, County Health Center, 2220 Moorpark Avenue; Santa Clara County Health Department.

Stockton—C R, 8 ft., PC 6, Fire Station, 2630 Bonnie Lane; San Joaquin Local Health District.

COLORADO

Denver—I C, 50 ft., PC 4, School Administration Building, 14th and Tremont Streets; City and County of Denver Building Department.

CONNECTICUT

Bridgeport—I C, 65 ft., PC 5, Fire Building, 274 Middle Street; City Bureau of Air Pollution Control.

Hartford—C, 80 ft., PC 5, Laboratory Service Section Building, 1179 Main Street; State Department of Health.

New Britain—I, 32 ft., PC 6, Herald Square Building; City Health Department.

New Haven—I C, 58 ft., PC 5, Hendrie Hall, Yale University, 165 Elm Street; City Department of Public Health.

Stamford—I, 40 ft., PC 6, Central Fire Station, 653 Main Street; City Health Department.

Waterbury—I C, 49 ft., PC 5, City Hall, 235 Grand Street; City Health Department.

DELAWARE

Wilmington—I C R, 44 ft., PC 6, Public Building, 1000 King Street; City Department of Health.

DISTRICT OF COLUMBIA

Washington—C R, 85 ft., PC 3, Municipal Building, 301 Indiana Avenue NW.; District of Columbia Department of Public Health.

FLORIDA

Jacksonville—I R, 37 ft., PC 5, State Board of Health Laboratory Building, 1217 Pearl Street; State Board of Health.

Miami—I C R, 50 ft., PC 5, City Communication Building, 65 SW First Street; Dade County Department of Health.

Orlando—C, 32 ft., PC 6, Fire Station, 700 West Central Avenue; Orange County Health Department.

St. Petersburg—C R, 40 ft., PC 5, Pinellas County Building, 150 Fifth Street, South; Pinellas County Health Department.

Tampa—C, 42 ft., PC 5, Police Station Building, Florida Avenue; City Department of Public Works, Bureau of Sanitary Sewers.

GEORGIA

Atlanta—C, 25 ft., PC 4, Health Department Building, 224 Central Avenue; Fulton County Health Department.

Augusta—I C R, 38 ft., PC 6, Richmond County Health Department Building, 1001 Bailie Drive; Richmond County Department of Health.

Columbus—I C, 35 ft., PC 5, Central Police Station, 937 First Avenue; Muscogee County Health Department.

Macon—I C R, 42 ft., PC 6, W. T. Grant Building, 418 Third Street; Macon-Bibb County Health Department.

Savannah—C R, 35 ft., PC 5, Chatham County Health Department Building, 23 East Charlton Street; Chatham County Department of Public Health.

HAWAII

Honolulu—C R, 15 ft., PC 5, State Department Health Building, 1250 Punch Bowl Street; State Department of Health.

IDAHO

Boise—C, 50 ft., PC 7, Central Fire Station, Sixth and Idaho Street; City-County Health Department.

ILLINOIS

Chicago—C, 100 ft., PC 1, City Office Building, 320 North Clark Street; Chicago Department of Air Pollution Control.

East St. Louis—C, 65 ft., PC 6, First Federal Building, 435 Missouri Avenue; East Side Health District.

Peoria—C, 25 ft., PC 5, City Patrol House, 419 Fulton Street; Office of Director of Inspections, City of Peoria.

Rockford—I C R, 30 ft., PC 5, Old City Hall, 126 South First Street; City Department of Public Health.

*Springfield—C, 20 ft., PC 6, Fire Department Engine House No. 2, 212 South Second Street; City Department of Public Health and Safety.

INDIANA

East Chicago—I, 75 ft., PC 6, Central Fire Station, Columbus Drive; City Bureau of Air Pollution Control.

Evansville—C R, 55 ft., PC 5, Central Library, 22 SE. Fifth Street; City Department of Smoke Control.

Fort Wayne—C, 18 ft., PC 5, Police Garage, 320 East Berry Street; Board of Public Works.

Gary—I C R, 10 ft., PC 5, No. 1 Fire Station, Fifth and Connecticut Streets; City Fire Department.

Hammond—C R, 55 ft., PC 5, Goldblatt Brothers Department Store, 5206 Hohman Avenue; City Health Department.

Indianapolis—C, 46 ft., PC 4, Fire Station No. 7, 301 East New York Street; City Bureau of Air Pollution Control.

South Bend—C, 80 ft., PC 5, Pick Oliver Hotel, Washington and Main Streets; City Department of Engineering.

Terre Haute—I C, 27 ft., PC 6, Fire Engine House, 19th and Wabash Streets; City Department of Smoke Supervision and Inspection.

IOWA

Davenport—I C R, 30 ft., PC 6, Fire Station, Fourth and Scott Streets; City Board of Health.

Des Moines—I C R, 32 ft., PC 6, Central Fire Station No. 1, Ninth and Mulberry Streets; Des Moines-Polk County Health Department.

KANSAS

Kansas City—C, 34 ft., PC 5, Fire Headquarters, Sixth and Ann Avenues; Kansas City-Wyandotte County Health Department.

Topeka—I C R, 62 ft., PC 5, City Building, 215 East Seventh Street; Topeka-Shawnee County Health Department.

Wichita—C, 35 ft., PC 5, Fire Station No. 1, 401 North Water Street; Wichita-Sedgwick County Department of Public Health.

KENTUCKY

Louisville—C, 35 ft., PC 5, City Police Headquarters, 633 West Jefferson Street; Jefferson County Air Pollution Control District.

LOUISIANA

Baton Rouge—I C R, 12 ft., PC 5, Health Unit Building, 1819 Florida Street; City-Parish Health Unit of the State Board of Health.

New Orleans—C, 74 ft., PC 4, Old Post Office Building, Lafayette and Camp Streets; Louisiana State Board of Health.

Shreveport—I C R, 15 ft., PC 5, Health Unit Building, 1866 Kings Highway; Caddo Parish-Shreveport Health Unit of the State Board of Health.

MAINE

Portland—I C R, 55 ft., PC 6, Office Building, 178 Middle Street; State Department of Health and Welfare.

MARYLAND

Baltimore—C, 32 ft., PC 3, Fire Department Headquarters Building, 410 East Lexington Street; City Health Department.

MASSACHUSETTS

Boston—C, 40 ft., PC 4, Health Department Building, 1 Haymarket Square, State Department of Public Health.

Brockton—C R, 50 ft., PC 6, Central Fire Station, Pleasant Street; City Health Department.

Cambridge—R, 60 ft., PC 5, Herbarium, Harvard University; State Department of Public Health.

Fall River—I C, 50 ft., PC 6, Central Fire Station, Bedford Street; City Fire Department.

Lawrence—R, 25 ft., PC 6, State Health Experiment Station, 37 Shattuck St.; State Department of Public Health.

Lowell—I C, 60 ft., PC 6, Lowell High School, Kirk Square; City Department of Public Health.

Lynn—C R, 75 ft., PC 6, City Hall, City Hall Square; City Department of Public Health.

New Bedford—C R, 50 ft., PC 5, Municipal Building, 133 Williams Street; City Board of Health.

Quincy—C R, 50 ft., PC 6, Health Department Building, 1120 Hancock Street; City Health Department.

Somerville—R, 85 ft., PC 6, Somerville High School, Highland Avenue; City Board of Health.

Springfield—R, 60 ft., PC 5, Municipal Hospital, 1414 State Street; City Department of Public Health.

Worcester—I C, 50 ft., PC 5, Police Headquarters, 5 Waldo Street; City Department of Public Health.

MICHIGAN

Dearborn, I C R, 51 ft., PC 6, Old Police and Court Building, 4440 Maple Avenue; City Department of Public Works.

Detroit—C, 90 ft., PC 2, Public Library, 5201 Woodward Avenue; City Bureau of Air Pollution Control.

Flint—C, 50 ft., PC 5, Fire Station, Detroit Street and Fourth Avenue; City Department of Public Works and Utilities.

*Grand Rapids—C, 35 ft., PC 5, City Hall Annex, 301 Ionia Avenue, NW.; Division of Air Pollution Control and Heating Inspection, City Department of Public Safety.

Jackson—C R, 32 ft., PC 6, City Library, 244 West Michigan Avenue; City Department of Public Health.

Kalamazoo—I C R, 243 ft., PC 6, 12th floor of Upjohn Co. Office Building, 301 Henrietta Street; City-County Health Department.

Lansing—C, 20 ft., PC 5, No. 1 Fire Station, 120 East Shiawassee Street; Lansing Air Pollution Control Board.

Saginaw—C, 20 ft., PC 6, Central Fire Station, 801 Federal Avenue; City Health Department.

MINNESOTA

Duluth—I C R, 63 ft., PC 5, City Hall, Fourth Avenue, West and First Streets; City Department of Public Health.

Minneapolis—I C R, 64 ft., PC 4, State Board of Health Building, University of Minnesota Campus; State Department of Health.

St. Paul—I C, 43 ft., PC 5, Public Utilities Building, 100 East 10th Street; Smoke Abatement Board, City Department of Public Utilities.

MISSISSIPPI

Jackson—C, 35 ft., PC 5, State Health Building, 2435 North State Street; State Board of Health.

MISSOURI

Kansas City—I C, 12 ft., PC 4, Police Garage, 1325 Oak Street; City Department of Public Health.

St. Louis—C, 58 ft., PC 3, Post Office Building, 18th and Market Streets; Division of Air Pollution Control, City Department of Public Safety.

MONTANA

Helena—C R, 25 ft., PC 8, State Laboratory Building, Lockey Avenue and North Roberts Street; State Board of Health.

NEBRASKA

Lincoln—I C R, 40 ft., PC 5, YWCA Building, 1432 North Street; Lincoln-Lancaster County Health Department.

Omaha—I C, 110 ft., PC 5, City Hall, 18th and Farnam Streets; Smoke Abatement Division, City Department of Public Safety.

NEVADA

Las Vegas—I C, 42 ft., PC 6, Fire Alarm Building, Second and Stewart Streets; Clark County Health Department.

NEW HAMPSHIRE

Manchester—C, 45 ft., PC 6, Police Station, 351 Chestnut Street; City Health Department.

NEW JERSEY

Atlantic City—C R, 80 ft., PC 6, Convention Hall, The Boardwalk; Management of Convention Hall.

*Bayonne—R, 60 ft., PC 6, Public School No. 3, 31st Street and Hudson Boulevard; City Department of Health.

Camden—I C R, 30 ft., PC 5, Fire Headquarters Building, Third and Arch Streets; Bureau of Fire, Department of Public Safety.

East Orange—R, 17 ft., PC 6. Laundry Building, VA Hospital, Tremont Avenue and South Centre; U.S. Veterans Administration.

Elizabeth—R, 63 ft., PC 5, Thomas Jefferson High School, 27 East Scott Street; City Board of Health.

Jersey City—I R, 85 ft., PC 5, Medical Center Garage Building, Corneilson Avenue; City Board of Health.

Newark—I C, 65 ft., PC 4, 920 Broad Street, City Hall; City Department of Health and Welfare.

*Paterson—I C. 32 ft., PC 5, Municipal Health Building, Mill and Passaic Streets; City Board of Health.

*Trenton—I C R, 60 ft., PC 5, State House Annex, West State Street; Air Sanitation Program of State Health Department.

NEW MEXICO

Albuquerque—I C R, 14 ft., PC 5, 2d floor, USO Building, Broadway and Tijeras, NE.; City Health Department.

NEW YORK

Albany—R, 40 ft., PC 4, State Department of Health Building, 84 Holland Avenue; State Department of Health.

Binghamton—I C, 50 ft., PC 6, Bureau of Health Building, 54 Hawley Street; City Bureau of Health.

Buffalo—C R, 50 ft., PC 4, Buffalo Museum of Natural Science, Humbolt Parkway; Erie County Health Department.

Elmira—I R, 16 ft., PC 7, Maintenance Building, 808 Canal Street; City Maintenance Department.

Glen Cove—I C R, 18 ft., PC 8, Police Garage, 146 Glen Street; City Department of Public Works.

Massena—I C R, 13 ft., PC 8, City Sewage Treatment Plant, East Orvis Street; State Health Department.

*Mt. Vernon—C R, 60 ft., PC 6, City Hall, Roosevelt Square; City Department of Health.

New Rochelle—R, 50 ft., PC 6, Fire Department Headquarters Building, 12 Church Street; City Department of Public Health.

New York City—C R, 75 ft., PC 1, Harlem Court House, 170 East 121st Street; Department of Air Pollution Control.

Niagara Falls—C R, 51 ft., PC 5, City Hall, Main Street and Cedar Avenue; City Department of Health.

Rochester—C, 30 ft., PC 5, Fire Headquarters Building, 185 North Street; Monroe County Health Department.

Schenectady—C R, 80 ft., PC 6, City Hall, 105 Jay Street; City Health Department.

Syracuse—I C, 27 ft., PC 5, Water Service Building, 101 Beech Street; Division of Smoke and Air Pollution Control, City Department of Engineering.

Troy—C R, 60 ft., PC 6, Rickett's Building, RPI Campus, Division of Environmental Engineering, Rensselaer Polytechnic Institute.

Utica—C, 20 ft., PC 5, City Health Office Building, 406 Elizabeth Street; City Health Department.

NORTH CAROLINA

Asheville—C, 45 ft., PC 6, Grove Arcade Building, Battery Park Avenue; Buncombe County Health Department.

Charlotte—C, 40 ft., PC 5, Fire Department Building, 125 South Davidson Street; City Health Department.

Greensboro—C R, Ground Level, PC 5, Filter Plant, City Pumping Station, 1041 Battleground Avenue; Office of Director of Public Works.

Raleigh—I C R, 75 ft., PC 6, Cooper Memorial Health Building, 225 McDowell Street; State Board of Health.

Winston-Salem—I C R, 18 ft., PC 5, Health Department Building, 623 North Highland Avenue; Forsyth County Health Department.

NORTH DAKOTA

Bismarck—C, 30 ft., PC 7, Memorial Building, 213 Sixth Street; City Department of Health and Building Inspection.

OHIO

Akron—I C R, 30 ft., PC 5, Fire Station No. 4, 821 Coburn Street; City Department of Health.

Canton—C, 50 ft., PC 5, Main Post Office Building, 200 Cleveland Avenue, South; City Health Department.

Cincinnati—C, 80 ft., PC 4, Public Library Building, 800 Vine Street; Bureau of Air Pollution Control and Heating Inspection, City Department of Safety.

Cleveland—C, 45 ft., PC 3, Harshaw Chemical Co., 1945 East 97th Street; City Department of Urban Renewal and Housing.

Columbus—I C, 62 ft., PC 4, Health and Safety Center, 181 Washington Boulevard; City Division of Smoke Regulation and Inspection, Department of Public Safety.

Dayton—I C, 88 ft., PC 5, Municipal Building, 101 West Third Street; City Bureau of Combustion Control, City Division of Building Inspection.

Hamilton—I C R, 50 ft., PC 6, Municipal Building, Monument and High Streets, Hamilton-Butler County Health Department.

Lorain—I C, 15 ft., PC 6, Water Works Office Building, 1106 First Street; City Department of Public Service.

Springfield—I C, 35 ft., PC 6, Central Fire Station, 350 North Fountain Avenue; City Health Department.

Toledo—I C, 24 ft., PC 5, Water Department Garage, 565 North Erie Street; Division of Air and Water Pollution Control, City Department of Public Service.

Youngstown—I C, 105 ft., PC 5, City Hall, Boardman and Phelps Streets; Division of Engineering, City Department of Public Works.

OKLAHOMA

Oklahoma City—C, 47 ft., PC 5, Municipal Building, North Walker Street and Couch Drive; City-County Health Department.

Tulsa—R, 19 ft., PC 5, Health Department Building, 461[illegible] East 15th Street; City-County Health Department.

OREGON

Eugene—I C R, 50 ft., PC 6, Lane County Courthouse, Seventh Avenue and Oak Street; State Sanitary Authority, State Board of Health.

Medford—C R, 40 ft., PC 8, Jackson County Courthouse Annex, 10 South Oakdale Street; State Sanitary Authority, State Board of Health.

Portland—C, 125 ft., PC 5, State Office Building, 1400 SW. Fifth Avenue; State Sanitary Authority, State Board of Health.

PENNSYLVANIA

Allentown—C, 24 ft., PC 5, City Hall Annex, 635 Linden St.; City Health Department.

*Altoona—C R, 62 ft., PC 6, City Hall, 12th Street and 13th Avenue; City Department of Water, Parks, and Public Property.

Bethlehem—C, 45 ft., PC 6, City Hall, 53 East Broad Street; City Bureau of Health.

Erie—I C R, 50 ft., PC 5, U.S. Courthouse Building, 617-27 State Street; City Bureau of Engineers Licenses and Smoke Abatement.

Harrisburg—I C, 135 ft., PC 6, Health and Welfare Building, Seventh and Forster Streets; State Department of Health.

Johnstown—I C, 80 ft., PC 6, Public Safety Building, Market and Washington Streets; City Fire Department.

*Lancaster—I C, 35 ft., PC 6, Post Office Building, Marion and Market Streets; State Department of Health.

Philadelphia—I, 27 ft., PC 2, Air Pollution Control Laboratory, 3200 Frankford Avenue; Division of Air Pollution Control and Environmental Sanitation, City Department of Public Health.

Pittsburgh—C, 160 ft., PC 4, County Office Building, Forbes Avenue at Ross Street; Bureau of Air Pollution Control, Allegheny County Department of Health.

Reading—I C R, 25 ft., PC 6, Nolde-Horst Building, 801 North Ninth Street; State Department of Health.

Scranton—C, 15 ft., PC 5, Fire Station, Washington and Mulberry Street; State Department of Health.

Wilkes-Barre—C, 30 ft., PC 6, Kirby Health Center, 71 North Franklin Street; State Department of Health.

York—C, 40 ft., PC 6, Laurel Fire Company Building, Duke and King Streets; City Department of Health.

PUERTO RICO

San Juan—R, 15 ft., PC 4, Public Health Building, Marina Street, Catana; Commonwealth of Puerto Rico Department of Health.

RHODE ISLAND

Providence—I C R, 45 ft., PC 5, Police Headquarters Building, Fountain Street at La-Salle Square; City Department of Building Inspection.

SOUTH CAROLINA

Charleston—R, 27 ft., PC 6, County Health Department Building, 10 Lockwood Drive; Charleston County Health Department.

Columbia—C, 27 ft., PC 6, Universal Building, 1745-47 Sumter Street; City Public Works Department.

Greenville—C, 25 ft., PC 6, City Curb Market Building, 210 Elford Street; City Department of Health.

SOUTH DAKOTA

Sioux Falls—I C R, 44 ft., PC 6, City Hall, 224 West Ninth; City Health Department.

TENNESSEE

Chattanooga—C, Ground Level, PC 5, City Hall, Lindsay and East 11th Streets; Bureau of Air Pollution Control and Boiler Inspection.

Knoxville—I C R, 70 ft., PC 5, Masonic Temple, 505 Locust Street; Division of Smoke Regulation and Boiler Inspection, City Department of Public Service.

Memphis—I C R, 26 ft., PC 4, Health Department Building, 814 Jefferson Street; Memphis-Shelby County Health Department.

Nashville—I C R, 90 ft., PC 5, City-County Building, Public Square; Bureau of Inspection and Permits, City Department of Public Works.

TEXAS

Austin—C R, 38 ft., PC 5, City Hall, Colorado and Eighth Streets; Austin-Travis County Health Unit.

Beaumont—I C R, Ground Level, PC 5, No. 7 Fire Station, McFaddin and First Streets; City Health Department.

Corpus Christi—I C R, 18 ft., PC 5, Memorial Hospital, 2606 Hospital Boulevard; Corpus Christi-Nueces County Health Department.

Dallas—C, 55 ft., PC 4, City Hall, 2015 Commerce Street; City Health Department.

El Paso—C, 36 ft., PC 5, Health Department Building, 118 West Missouri Street; City-County Health Unit.

Fort Worth—C, 45 ft., PC 5, City Hall, 1000 Throckmorton; City Department of Public Health and Welfare.

Galveston—C, 100 ft., PC 6, City Hall, 807 25th Street; City Health Department.

Houston—C, 50 ft., PC 3, Sam Houston Coliseum, 810 Bagby Street; City Health Department.

San Antonio—C, 28 ft., PC 4 City Hall Annex, 331 West Nueva Street; Department of Public Health.

Texas City—I C R, 2 ft., PC 7, City Hall, 1801 North Ninth Avenue; Galveston County Health Department.

Waco—I C R, 55 ft., PC 6, City Hall, City Square; Waco-McLennan County Health Department.

UTAH

Salt Lake City—C, 50 ft., PC 5, Police Building, 224 East Fourth Street; City Board of Health.

VERMONT

Burlington—I C R, 26 ft., PC 7, State Health Building, 115 Colchester Avenue; State Department of Health.

VIRGINIA

Danville—I, 60 ft., PC 7, Municipal Building, 427 Patton Street; Department of Public Works.

Hampton—I C R, 33 ft., PC 6, Virginia Electric Power Co. Office Building, Pembroke Avenue and G St.; City Health Department.

Norfolk—I C R, 42 ft., PC 5, City Social Service Bureau Building, 512 East Plume Street; City Health Department.

Portsmouth—C, 13 ft., PC 5, Health Department Building, 301 South Green Street; City Health Department.

Richmond—C R, 85 ft., PC 5, Mosque Building, Laurel and Main Streets; City Division of Air Pollution Control, City Department of Public Safety.

Roanoke—I C, 30 ft., Health Center, 518 Eighth Street, SW.; City Department of Air Pollution Control.

WASHINGTON

Seattle—C I, 210 ft., PC 4, Smith Tower, Second and Jefferson Streets; Air Sanitation and Radiological Control Section, State Department of Health.

Spokane—C, 80 ft., PC 5, City Hall, Trent and Wall Streets; City Health Department.

Tacoma—C, 26 ft., PC 5, Public Library Building, 1102 South Tacoma Avenue; Tacoma-Pierce County Health Department.

WEST VIRGINIA

Charleston—C R, 86 ft., PC 6, State Parking Building, 212 California Avenue; State Department of Health.

Huntington—C, 50 ft., PC 6, Cabell County Court House, 700 Fourth Avenue; Cabell-Huntington Health Department.

Wheeling—C, 35 ft., PC 6, City-County Building, 15th and Chapline Streets; Air Pollution Control Department.

WISCONSIN

Madison—I C, 15 ft., PC 5, City-County Building, 202 Monona Avenue; City Department of Public Health.

Milwaukee—I C, 60 ft., PC 3, Public Library, North Wells and North Ninth Streets; Milwaukee County Department of Air Pollution Control.

Racine—I C, 20 ft., PC 6, Police Station Building, 103 Seventh Street; City Health Department.

WYOMING

Cheyenne—C, 53 ft., PC 7, State Office Building, 23d and Central Avenue; State Department of Public Health.

NONURBAN STATIONS

ALABAMA

Baldwin County—6 ft. MSL, Gulf coast, Chandler Residence, Fort Morgan State Park; Baldwin County Health Department.

ALASKA

Pt. Woronzof—192 ft. MSL, forest, Federal Aviation Agency Remote Receiver Site, Cook Inlet; Arctic Health Research Center, Public Health Service.

ARIZONA

Grand Canyon Park—6,955 ft. MSL, desert, Visitor Center, Grand Canyon Village Region; National Park Service.

Maricopa County—1,421 ft. MSL, desert, 8102 North Mummy Mountain Road, Scottsdale, Ariz.; Willard L. Groene.

ARKANSAS

Montgomery County—700 ft. MSL, forest, Forest Ranger Station, Oden Ranger District, Ouachita National Forest; U.S. Forest Service.

CALIFORNIA

Humboldt County—175 ft. MSL, Pacific coast, Trinidad Light Station; U.S. Coast Guard.

COLORADO

Montezuma County—7,220 ft. MSL, mountain, Chapin Mesa, Mesa Verde National Park; National Park Service.

CONNECTICUT

Litchfield County—565 ft. MSL, farmland, Wigwam Reservoir; Waterbury Health Department.

DELAWARE

Kent County—5 ft. MSL, farmland, Headquarters Building, Bombay Hook National Wildlife Refuge; Air Pollution Authority, State Board of Health.

FLORIDA

Florida Keys—1 ft. MSL, Atlantic coast, Lowe's Point, Key Largo; Capt. Eugene Lowe and State Board of Health.

GEORGIA

Chatham County—9 ft. MSL, Atlantic coast, marine dock, Communicable Disease Center Laboratories, Oatland Island; Public Health Service.

HAWAII

Kahaluu—100 ft. MSL, Pacific coast, vicinity Kahaluu Booster Pumping Station, Ahuimanu Street, Kahaluu District; State Department of Health.

IDAHO

Butte County—5,900 ft. MSL, desert, Headquarters Area, Craters of the Moon National Monument; National Park Service.

ILLINOIS

Sangamon County—590 ft. MSL, farmland, private residence, northwest shore of Lake Springfield; State Department of Health.

INDIANA

Parke County—640 ft. MSL, farmland, Shelter House No. 1 Area, Turkey Run State Park; State Department of Conservation.

IOWA

Delaware County—1,216 ft. MSL, farmland, Fish Hatchery, Backbone State Park; State Conservation Commission.

KANSAS

*Ellis County—2,000 ft. MSL, farmland, Pumping Station, U.S. Highway 183, Hays, Kans.; State Department of Health.

KENTUCKY

Pulaski County—840 ft. MSL, mountain, DuPont Lodge, Cumberland Falls State Park; County Health Department.

LOUISIANA

St. Tammany Parish—5 ft. MSL, Gulf coast, private residence, 4½ miles northeast of Slidell, La.; St. Tammany Parish Health Unit, State Board of Health.

MAINE

Acadia National Park—25 ft. MSL, Atlantic coast, seawall area of park; National Park Service.

MARYLAND

Calvert County—10 ft. MSL, farmland, Solomons Island; State Department of Health.

MASSACHUSETTS

Nantucket—Atlantic coast, Sankaty Head Light Station, Nantucket Island; U.S. Coast Guard.

MICHIGAN

Huron County—600 ft. MSL, Great Lakes coast, Sleeper State Park, Lake Huron; State Department of Conservation.

MINNESOTA

Cook County—615 ft. MSL, Great Lakes coast, Ranger Headquarters, Superior National Forest; U.S. Forest Service.

MISSISSIPPI

Jackson County—6 ft. MSL, Gulf coast, Ocean Springs Gulf Coast Laboratory, Davis Bay; Gulf Coast Research Laboratory of State Institutions of Higher Learning.

MISSOURI

Shannon County—1,250 ft. MSL, forest; Eminence Fire Control Tower, State Highway 19; State Conservation Commission and State Health Department.

MONTANA

Glacier National Park—4,528 ft. MSL, mountain, St. Mary Ranger Station; National Park Service.

NEBRASKA

Thomas County—2,710 ft. MSL, farmland, Bessey Nursery, Nebraska National Forest; U.S. Forest Service.

NEVADA

White Pine County—6,825 ft. MSL, desert, Park Maintenance Area, Lehman Caves National Monument; National Park Service.

NEW HAMPSHIRE

Coos County—Forest, U.S. Fish Cultural Station, White Mountain National Forest; U.S. Fish and Wildlife Service.

NEW JERSEY

*Cape May—5 ft. MSL, Atlantic coast, radar tower at USCG Electronic Engineering Station; U.S. Coast Guard.

NEW MEXICO

Colfax County—6,650 ft. MSL, mountain, Philmont Scout Ranch, Cimarron; Boy Scouts of America.

NEW YORK

Cape Vincent—250 ft. MSL, Great Lakes coast, Fog Signal Building, Tibbetts Point Light Station; U.S. Coast Guard.

NORTH CAROLINA

Cape Hatteras—7 ft. MSL, Atlantic coast, museum, Cape Hatteras National Seashore Recreational Area; National Park Service.

NORTH DAKOTA

Ward County—1,620 ft. MSL, farmland, Maintenance Building, Upper Souris National Wildlife Refuge, Lake Darling; U.S. Fish and Wildlife Service.

OHIO

South Bass Island 590 ft. MSL, Great Lakes coast, Headquarters Area, Perry's Victory and International Peace Memorial National Monument; National Park Service.

OKLAHOMA

Cherokee County—919 ft. MSL, farmland, Tahlequah City Water Plant; Cherokee County Health Department.

OREGON

Curry County—212 ft. MSL, Pacific coast, Cape Blanco Light Station; U.S. Coast Guard.

PENNSYLVANIA

Clarion County—Mountain, Cook Forest State Park; State Department of Forests and Waters.

PUERTO RICO

Loquillo Mountains—2,500 ft. MSL, forest, private residence, Mount Britton area, Loquillo National Forest; Commonwealth of Puerto Rico Department of Health.

RHODE ISLAND

Washington County—545 ft. MSL, farmland, Pine Hill Fire Tower, Exeter; State Department of Agriculture and Conservation.

SOUTH CAROLINA

Richland County—440 ft. MSL, farmland, Livestock Laboratory, Clemson College Experimental Station; Clemson Agriculture College and U.S. Department of Agriculture.

SOUTH DAKOTA

Black Hills Forest—5,200 ft. MSL, forest, Tepee Ranger Station, U.S. Highway 16; U.S. Forest Service.

TENNESSEE

Stewart County—478 ft. MSL, farmland, Headquarters area, Fort Donelson Military Park; National Park Service.

TEXAS

*Calhoun County—15 ft. MSL, Gulf coast, County Health Unit Building, 106 Hospital Street; Port Lavaca-Calhoun County Health Unit.

UTAH

Bryce Canyon Park—7,900 ft. MSL, desert, Park Warehouse Area; National Park Service.

VERMONT

Orange County—1,400 ft. MSL, mountain, Dormitory, Vermont Agriculture and Technical Institute, Randolph Center; State Department of Health.

VIRGINIA

Shenandoah National Park—100 ft. MSL, forest, Park Administration Building; National Park Service.

WASHINGTON

Clallam County—150 ft. MSL, Pacific coast, FAA L. F. Radio Range, Neah Bay; Federal Aviation Agency and State Health Department.

WEST VIRGINIA

Webster County—1,501 ft. MSL, mountain, Storage and Maintenance Area, Holly River State Park, Hocker Valley; State Conservation Commission.

WISCONSIN

Door County—780 ft. MSL, Great Lakes coast, Golf Course Equipment Building, Highland Road, Peninsula State Park; State Conservation Department.

WYOMING

Yellowstone Park—5,935 ft. MSL, mountain, chlorine house for sewage plant, Mammoth area of park; National Park Service.

PART 4—ANALYTICAL METHODS

The analytical methods described in this section of the report are those used in the laboratories of the Division of Air Pollution for the analysis of suspended particulate samples.

SAMPLES—COLLECTION AND PREPARATION FOR ANALYSIS

Collection

Samples are collected for a 24-hour period on weighed 8- by 10-inch flash-fired, glass-fiber filters on the high-volume sampler.

Weighing of Samples

After collection, the sample is equilibrated at 75° F. and 50 percent relative humidity for approximately 16 hours or overnight. This insures that all samples are brought to the same degree of dryness before being weighed. Immediately after removal from the equilibration chamber, samples are weighed, usually to the nearest milligram.

Aliquotting of Samples for Analysis

The analyses to be performed determine the subdivision of the sample. The filter is accurately cut into halves or quarters by means of a template designed for this purpose. Smaller aliquots are removed by means of a circular steel cutting die. Since dies are available in a wide range of diameters, aliquots may be cut to represent different percentages of the sample.

Radioactivity.—Gross β-radioactivity is determined on the intact sample in a large counting chamber that accepts the flat 8- by 10-inch filter.

Organic Materials.—Half of the sample is used for extraction of the benzene-soluble organic pollutants. Under certain conditions the whole filter may be used; when this is done no other analyses are possible.

Nonmetals.—Two circles 1¾ inch in diameter are cut from half of the sample. Each circle represents 4 percent of the sample.

Metals.—The portion of the sample remaining after six 1¾ inch circles have been removed from a half sample is used for the spectrographic determination of metals. This remainder, which is equal to 26 percent of the sample, is representative of the whole sample. If necessary, a smaller portion of the sample may be used for this measurement.

Quarterly Composites.—Quarterly composite samples are obtained by combining portions of all samples collected during a quarter. Sample aliquots should be equivalent in terms of the volume of air represented by an aliquot. For example, a 4 percent aliquot removed from a 2,000 m.^{3} sample would represent 80 m.^{3} of air. To obtain an equivalent aliquot from a 2,500 m.^{3} sample, a 3.2 percent portion would be taken; for a 1,600 m.^{3} sample, a 5 percent aliquot would be removed. To obtain the various aliquots a 4 percent circle can be cut into wedges, each of which represents a fraction of a percent; thereby it is possible to secure equivalent portions for compositing. The composites are analyzed in the same manner as the other samples.

β-RADIOACTIVITY

The gross beta activity of the weighed sample is measured on the entire 8- by 10-inch filter. The samples are counted after they are 2 days old to allow decay of the natural alpha and its associated beta-gamma activity. The samples may be recounted after 4 to 7 days to establish the decay in terms of apparent half-life of the radioactive materials. Computed values are based on these initial measurements in combination with such additional factors as self-absorption, counting efficiency, the volume of air sampled, and the weight of particulates collected. The computed values are given as gross β-radioactivity, in picocuries per cubic meter of air on the date of sample collection, and decay rate, expressed as half-life beginning on the date of the first count.

INSTRUMENT

The counting apparatus consists of a proportional gas flow counting chamber and preamplifier (Nuclear Measurements Corporation Model PCC-12) having a thin (0.9 mg./cm.^{2}) metal-coated plastic window (Mylar), a conventional scaler (Nuclear-Chicago Model No. 181A Decade), and a timer (Nuclear-Chicago Dual Timer Model T1). The piston of the counter chamber is replaced with a steel plate, covered with aluminum foil for ease of decontamination. The sample is placed on the plate, 5 mm. below the thin window.

Calibrations for Determining the Plateau and Instrument Performance.—A sample of uranium oxide placed on a 2-inch diameter stainless-steel planchet, covered with 7 mg./cm.^{2} of aluminum foil to shield out alpha activity, is used as a secondary standard for determining the plateau and making daily calibrations. These calibrations are made three times daily for assurance that the instrument is performing properly. Including a background of 500 counts per minute (cpm), the activity of the standard is 10,400 counts per minute. Two materials are used as primary standards for determining counter efficiency of internal and thin-window proportional counters: (1) sources of radium D + E, plated on stainless steel and covered with 7 mg./cm.^{2} of aluminum foil, and (2) standard solutions of thallium-204, obtained from the National Bureau of Standards and deposited in counting pans.

Initial Determination Of The Counter Efficiency.—A thin source of thallium-204 having an area of 18.1 cm.^{2} was counted in an internal proportional counter having a geometry factor of 0.50 and a backscatter factor of 1.31 or an overall efficiency of 0.655 cpm per disintegrations per minute (dpm). The same source centered 5 mm. below the thin window (7.5-inch diameter) counted 86 percent of the internal proportional counting rate, i.e., 0.86 × 0.655 or 0.563 cpm per dpm.

A point source of thallium-204 (2-mm. diameter) was counted at different radial positions, directly under the center of the window and out to beyond the periphery of the window in four directions. The plotted results of these four sets of data indicated excellent agreement for a given radial distance but a diminution of the counting rate as the source approached the window periphery.

The results of these tests show that the effective counting area is only 41.9 square inches, whereas the total sample area is 63.0 squares inches. Thus, the ratio of the effective counting area to the total sample area is 41.9/63.0, or 0.665.

Filter Absorption and Self-Absorption.—Filter absorption was estimated from concurrent collections of air particulates on glass-fiber filters and membrane filters with equal filtering rates. The membrane filters were ignited to remove the possibility of filter absorption; the glass-fiber filters were treated with conducting fluid and air-dried before both types of samples were counted in an internal proportional counter. The percentages of membrane filter activity recovered on the glass-fiber filters ranged from 88.7 to 92.0 percent, or an average of 90.3 percent.

Because of the absorption of radiation by the sample solids on the filter, a self-absorption correction is required. The self-absorption correction factors are as follows: 1.04 for 0 to 0.6 gm. samples, 1.12 for 0.6 to 1.0 gm. samples, 1.22 for 1.0 to 1.6 gm. samples, and 1.36 for 1.6 to 2.4 gm. samples.

Counting Procedure

The chamber is preflushed at high rate with P-10 gas for about 1 hour. Proper flushing is ascertained by counting the background and a secondary standard to determine whether these have changed from the day before. Low background or standard counts indicate insufficient flushing; high background counts indicate contamination. Very little trouble due to contamination has been experienced, even though some of the samples appear to contain loose dust. The flushing procedure is repeated at the end of the day or when all samples for the day have been counted.

The filter is placed on the steel plate, which is then placed in the proper position in the chamber. Two counts of 2 minutes each are taken. If the two counts do not agree, a third count is made. A similar count is made after a lapse of 4 to 7 days.

Calculation of Radioactivity

Determining the Radioactivity of the Sample

1. The average gross counts per minute are obtained from the results of the 2-minute counts.

2. The cpm of background is subtracted from the average cpm of the sample to find the average net cpm.

3. Corrections are made for counting efficiency and filter absorption.

Dpm (disintegrations per minute) = net cpm $\times 1/.563 \times 1/.655 \times 1/.903$.

$1/.563$ = correction for efficiency = $1/.86 \times 1/.655$.

$1/.665$ = effective counting area correction.

$1/.903$ = filter absorption factor.

4. Dpm are converted to picocuries.

dpm/2.22 = pc (picocuries).

5. Corrections are made for volume of air sampled.

pc/V = pc/m.^{3} (uncorrected).

V = volume of air sampled in cubic meters.

6. Corrections are made for self-absorption of sample.

pc/m.^{3} (uncorrected) $\times$ Fs = pc/m.^{3} (corrected).

Fs = self-absorption factor.

Determining the Average Half-life of Radioactive Isotopes in the Sample

1. Net cpm is plotted against counting date on semi-log paper. The count is plotted on the log scale and the days between the counts on the linear scale.

2. A straight line is drawn through the two points.

3. The point on the line where the net cpm is one-half that found when the sample was first counted is determined.

4. A vertical line is dropped from the point to the base. The number of days from the date of the first count to this point is the average half-life of the radioactive isotopes present in the sample.

Determining Radioactivity on Date of Sample Collection.—Samples having an apparent half-life of less than 10 days are corrected for decay to the date of collection by extrapolating a plot of the decay results on log-log paper. This extrapolation is based on the assumption that the Way-Wigner formula (AT^k=constant) is valid and on an assumed date of bomb-debris formation, which provides values for k between 1.1 and 1.2 (log-log plots of decay data of high-level bomb debris usually follow the theoretical negative exponential decay rate of 1.2 rather closely, while low-level activity or activity 10 or more days old have decay slopes that are less than 1.2 but rarely less than 1.0). If the half-life is greater than 10 days, the results of the two counts are plotted on semi-log paper and the activity of the sample is determined by extrapolating back to the date of collection.

Reliability of Radioactivity Data.—The reliability of radioactivity data is somewhat variable since it depends upon many factors, such as the age of the bomb debris when first counted, the number of days from collection to date of first count, and the counting error, which is a function of the counting rate. For bomb debris less than 5 days old and for relatively high activity it is possible that the extrapolated value could be off by a factor of 2 because fractional parts of a day are not considered. For materials having an age of 10 days or more, the determination should be within 10 percent of the correct value. For low activity'in the order of 10 days or more, the determination should be within 10 percent of the correct value. For low activity in the order of 1,000 cpm per sample, the raw counting error at the 95 percent confidence level may be estimated to be 1.96/2 (1,500 plus 500)$^{1/2}$ =44 cpm, or 4.4 percent; the error for a sample with a count of 500 cpm (or equal to the background) would be 1.96/2 (1,000 plus 500)$^{1/2}$ =38 cpm, or 7.6 percent.

ORGANIC MATERIALS

Selection of Solvent

Several solvents have been used for removing organic materials from air particulate samples. The choice of solvent must be based upon the interest of the individual worker. Extraction with acetone will result in the removal of more organic matter from the sample than would the extraction with benzene, ethyl ether, chloroform, etc., but the extracted material will not completely redissolve in any solvent. Benzene and cyclohexane extracts redissolve readily and are well suited for infrared examination. Polycyclic compounds are effectively removed by benzene or cyclohexane extraction. Chloroform, a very satisfactory solvent, removes only slightly less material than does acetone.

From 1953 through June, 1955, acetone was used to remove the organic materials from all samples. The major interest during that time was in the determination of atmospheric protein levels. Use of acetone as a solvent resulted in the removal of maximum amounts of nonprotein materials which could have interfered with the protein measurement. The extracts obtained by this procedure were difficult to handle when used for further chemical studies, and also contained considerable inorganic matter. Therefore, the use of this solvent was discontinued at the end of the protein study. Since July 1, 1955, all samples have been extracted with redistilled benzene, which, while it does not remove all of the organic material present in the sample, does provide a more useful product for further analyses.

Extraction Procedure

1. The sample is folded into a bundle to prevent loss of material during the extraction procedure and to allow it to be easily introduced into the extractor. The bundle is tied with fine copper wire.

*2. The sample is placed in a Soxhlet extractor and extracted with benzene for 6 to 8 hours. This extraction will remove over 95 percent of the soluble organic materials from the sample. At the end of the extraction period, the solution is concentrated in the extraction flask to a small volume (5 ml.). This can be done by removing the solvent from the extractor instead of allowing it to return to the extraction flask.

*3. The concentrated extract is filtered through a medium-porosity Corning fritted glass filter into a weighed test tube or flask by means of a Fisher Filtrator or similar apparatus. The original container and filter are washed at least twice with small amounts of chloroform. Small volumes of chloroform efficiently remove the organic materials and prevent accumulation in the filter of organic matter, which may clog the pores of the filter. This procedure allows the filtration of several samples in sequence with no chance of contamination.

4. The remainder of the solvent is removed by heating in an oven maintained slightly below the boiling point of the solvent (60° F). All electrical controls of the oven must be outside the oven to prevent the possibility of an explosion, which might result from the sparking of the controls. The solvent may also be removed "in vac" but boiling may occur, with resulting loss of material.

5. The sample is weighed after the last of the solvent has been removed. If desired, the samples may be reheated until they reach a constant weight. The concentration of organic matter is then computed.

Analysis

Examination by infrared spectroscopy of the crude organic materials obtained by the above procedure often provides useful information. Since most extracts are complex mixtures of a large number of organic compounds, infrared spectroscopy seldom gives information on the presence of individual compounds but gross differences between samples can be detected. In at least one instance a specific compound (caffeine) was identified by this technique.

The crude organic materials obtained by extraction with benzene may be separated into water-soluble, basic, weakly acidic, strongly acidic, neutral, and water-ether insoluble fractions by the following procedure:

1. The sample to be fractionated is weighed in a small flask, then loosened from the flask by the addition of a small amount of ethanol or chloroform. As much of the loosened crude composite sample as possible is dissolved in ethyl ether and the solution filtered through a tared fritted glass funnel. The residue on the funnel and that remaining in the flask are washed with water. The flask and the funnel, both containing some insoluble material, are dried and weighed. This gives the total weight of *water-ether-insolubles.*

2. The filtrate (from 1), a two-phase system, is transferred to a separatory funnel. The water layer is removed and evaporated to dryness. The residue represents the total *water-soluble fraction.*

3. The ether layer (from 2) is extracted with an equal volume of 5 percent hydrochloric acid. The lower layer (acid solution) is transferred to another separatory funnel and the ether solution is saved for step 5.

4. The acid extract (from 3) is made alkaline with strong sodium hydroxide solution, and extracted with an equal volume of ethyl ether. The ether layer is drawn off and dried with anhydrous sodium sulfate. The sodium sulfate is removed by filtering, and the flask and salt are rinsed with several small portions of ether. The ether solution is evaporated to dryness. The residue is the *basic* (*amine*) *group.*

5. The ether layer (from 3) is extracted with an equal volume of 5 percent sodium hydroxide solution. The lower layer is transferred to another separatory funnel and saved for step 7.

6. The ether layer (from 5) is drawn off and dried with anhydrous sodium sulfate. The salt is removed by filtering, and rinsing with several portions of dry ether. The ether solution is evaporated to dryness. The residue is the *neutral group.*

7. The alkaline solution (from 5) is saturated with carbon dioxide to give a pH of 8 and extracted with ethyl ether. The lower layer is transferred to another separatory funnel and saved for step 8. The ether solution is dried with anhydrous sodium sulfate. The salt is removed by filtering. The ether solution is evaporated to dryness. The residue is the *weak acid fraction.*

8. The solution (from 7) is acidified to pH 3 with concentrated hydrochloric acid and extracted with ethyl ether. The lower layer is discarded. The ether layer is dried over anhydrous sodium sulfate. The salt is remove by filtering, and the ether by evaporation. The residue is the *strong acid group.*

The neutral group may be further divided by column chromatography on silica gel into aliphatic, aromatic, and oxygenated neutral compounds.

1. A chromatographic tube, 20 mm. in diameter, is packed to a height of 10 cm. with 200-mesh silica gel. The neutral group, dissolved in a small volume of ether or chloroform, is transferred to a small amount of silica gel, the solvent is removed, then the silica gel is transferred to the top of the column.

2. The column is eluted initially with 85 ml. of 2,2,4-trimethylpentane (isooctane) and then with a similar volume of benzene. Finally it is flushed with a 1:1 mixture of chloroform and methanol. The isooctane eluate contains the *aliphatic fraction*, the benzene eluate the *aromatic fraction*, and the chloroform-methanol eluate the *oxygenated neutral fraction.*

METALS—SPECTROGRAPHIC METHOD

Standardization.—A stock solution of the following metals, with the concentrations indicated, is prepared: Be, Bi, Cd, Co, 1 μgm/0.05 ml.; Sb, Cr, 2 μgm/0.05 ml.; Mo, Ti, 4 μgm/0.05 ml.; Ni, V, Sn, 8 μgm/0.05 ml.; Mn, 20 μgm/0.05 ml.; Cu, Fe, Pb, 100 μgm/0.05 ml.; Zn, 200 μgm/0.05 ml. Salts used should be ACS grade or better. Working standard solutions are made by diluting the stock solution to give concentrations ½, ¼, ⅛ . . . 1/1024 of the original. One stronger standard is made by doubling the quantity on the electrode.

A nitric acid extract of the glass filter (63 sq. in. of filter = 40 ml. acid extract) is added directly to the electrodes in order to duplicate the conditions obtained in the particulate sample solution. This compensates for the acid soluble material present in the glass filter, some of which could interfere in the metal analysis. This procedure eliminates the need for making separate corrections for metals present in the filter.

Three replicate standard plates are made as follows. Electrodes of high-purity graphite (V crater with center post) are warmed 10 minutes in an oven at about 80° C. The crater portion is briefly immersed into a hot 20 percent solution of paraffin in redistilled benzene, then oven-dried for a few minutes. The crater is then filled ⅓ full with a LiCl-graphite mixture (1 part LiCl and 2½ parts graphite), 0.05 ml. of the glass filter extract (equal to 1/800 of the filter) is transferred to the electrode, and 1 drop of methanol added to distribute the solution evenly. The electrodes are partially dried in the oven, then 0.05 ml. of the working standard is pipetted (0.10 ml. for the stronger standard), and one drop of methanol is added. The electrode is dried at 80° C, then heated at 105° C. for 1 hour.

The loaded electrodes are arced, as the anode, 30 seconds on a Baird 3-meter-grating spectrograph at about 7 d.c. amperes. Prior to arcing, the current is set at 8.25 amperes closed circuit and not adjusted further during the arcing period. Gap is maintained at 3 mm., slit 6 mm. × 25 μ. Pointed counter electrodes are sharpened in a pencil sharpener.

A single-step sector, passing one-eighth of the uninterrupted beam, is interposed between the slit and the lens. Eastman 103-0 plates are used, and the first order of the region 2170 A° to 3590 A° recorded. The plates are processed by standard procedures (3 minutes D–19, 68° F. water rinse; 10 minutes in Kodak acid fix, and 25 minutes wash). Line intensity is measured with an NSL Spec. Reader.

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*Steps 2 and 3 should be accomplished in a hood.

The following analysis lines are used: Cd 2288.0 A°, Be 2348.6 A°, Fe 2457.6 A°, Pb 2663.2 A°, Cr 2677.2 A°, Cu 2824.4 A° and 3274.0 A°, Sn 2840.0 A°, Sb 2877.9 A°, Mn 2933.1 A°, Ni 3003.6 A°, Bi 3067.7 A°, Mo 3170.3 A°, V 3183.4 A°, Ti 3199.9 A°, Zn 3345.0 A°, and Co 3453.5 A°.

Calibration curves for each metal are plotted as ratio of percent transmittance of line plus background to percent transmittance of adjacent background versus micrograms of metal on the electrode on log-log graph paper. Data from the curves are consolidated in chart form.

Analysis

To permit more complete removal of inorganic materials than is possible by simple acid extraction, samples (26 percent of the original) are first muffled at 500° C. for 1 hour to burn off organic matter. Then, two extractions with 40 ml. portions of 1: 1 redistilled nitric acid are made at slightly below the boiling point for 1 hour. After the resulting solutions are filtered through Whatman No. 42 filter paper, they are evaporated to 3 to 4 ml. and then made up to 10.4 ml. (0.05 ml. of this solution is equivalent to 1/800 of the sample).

Electrodes (preparation described above, except the addition of glass-filter extract is omitted) are loaded with 0.05 ml. of sample solution. Arcing conditions, plate processing, and densitometry are the same as standard plate conditions. By use of the numerical value of the line plus background to background ratio, amounts of each metal on the electrode are obtained by reference to the chart.

$$\frac{\mu g \text{ metal on electrode} \times 800}{\text{m.}^3 \text{ of air sampled}} = \mu g \text{ metal per m.}^3 \text{ of air}$$

NONMETALS

Extraction of Water-Soluble Materials

An 8 percent aliquot of the sample is placed in a 125 ml. flask, and 50 ml. of distilled water added. The mixture is refluxed for 90 minutes, cooled and filtered through Whatman No. 1 paper. The extraction is repeated with 10-15 ml. water and mixture is heated only a few minutes without a condenser. The solution is filtered through the same filter; the flask and the filter are washed until the total volume of filtrate is 80 ml. The filtrate is mixed thoroughly and stored in a clean, rubber-stoppered bottle.

This solution may be used for the determination of nitrates, sulfates, and pH. Each ml. of the solution is equivalent to 0.1 percent of the sample.

Note: A 4 percent aliquot of the sample may be extracted, giving a final volume of 40 ml.

Determination of Sulfates

Reagents

1. 10 *N* hydrochloric acid.
   Eighty ml. of concentrated acid is diluted to 100 ml. with distilled water.
2. Glycerine—alcohol solution.
   One volume of glycerine is mixed with two volumes of 95 percent ethanol.
3. Barium chloride crystals.
   High-quality 20–30 mesh crystals are used.
4. Stock standard solution (1000 μg SO_4/ml.).
   1.48 grams of anhydrous sodium sulfate is dissolved in distilled water and diluted to 1 liter.
5. Working standard solution (100 μg SO_4/ml.).
   Ten ml. of stock standard is diluted to 100 ml. with distilled water. This solution should be prepared daily.

Analysis

Twenty ml. of the water extract (2 percent) of the sample is pipetted into a clean, dry cuvette; 1 ml. 10 *N* hydrochloric acid and 4 ml. of the glycerine-alcohol solution are added and the solution mixed well. The optical density is read at 500 mμ against the blank. This reading is subtracted from the final reading as a correction for unmatched cuvettes and impurities in the sample. Approximately 0.25g of barium chloride crystals are added and mixed until dissolved. After the mixture stands for 40 minutes, the optical density is read at 500 mμ against the reagent blank. Any spectrophotometer that accommodates cuvettes with a light path of 25 or 50 mm. should be satisfactory.

The sulfate content of the 20-ml. sample is determined by referring to the calibration curve.

$$\frac{\mu g \text{ sulfate in 20-ml. sample} \times 50}{\text{m.}^3 \text{ of air sampled}} = \mu g \text{ sulfate/m.}^3 \text{ of air}$$

Standardization

A series of standards (starting with the working standard solution) is prepared according to the following table:

µg sulfate in standard	*Ml. working standard solution*	*Ml. distilled water*
Blank	0	20
100	1	19
200	2	18
400	4	16
600	6	14
800	8	12
1,000	10	10
1,200	12	8

The procedure for analysis of sample, starting with step 2, is followed. For the calibration curve, μg sulfate in the standard is plotted against the optical density. On graph paper with rectangular coordinates the result should be a straight line.

Nitrates

Reagents

1. Xylenol reagent.
   Five ml. of 2,4 xylenol is mixed with 500 ml. of glacial acetic acid.
2. Sulfuric acid solution (85 percent).
   With care, 480 ml. of concentrated sulfuric acid is added to 117 ml. water, mixed well, and cooled during the addition.
3. Sodium hydroxide solution (0.4 N).
   Sixteen g of sodium hydroxide is dissolved in water, diluted to 1 liter, and stored in a polyethylene bottle.
4. Stock standard solution (100 μg NO_3^-/ml.). 0.163 g potassium nitrate is dissolved in water and diluted to 1 liter.
5. Working standard solution (20 μg NO_3^-/ml.).
   Five ml. of stock standard is pipetted into a 25-ml. volumetric flask, diluted to the mark, and mixed.

Analysis of Sample

A 5-ml. aliquot of the water extract (0.5 percent) of the sample is pipetted into a 25-mm test tube; 15 ml. of the 85 percent sulfuric acid is added; the solution is mixed and allowed to cool. One ml. of the xylenol reagent is added; the solution is mixed, heated in a 60° water bath for 30 minutes, and cooled. The contents of the tube are transferred to a 250-ml. separatory funnel, the tube rinsed with distilled water, and according to a prearranged mark on the funnel, diluted to approximately 80 ml. Ten ml. of toluene is added to the separatory funnel and the mixture shaken for 2 minutes. (A mechanical shaker gives more uniform results.) After 15 minutes, the lower layer is run off and discarded. The toluene is gently shaken in the separatory funnel with 20 to 25 ml. of water and allowed to settle a few minutes. The lower layer is completely run off and discarded. Ten ml. of 0.4 *N* sodium hydroxide solution is added. The mixture is shaken for 5 minutes, allowed to stand until the lower layer becomes clear, then the lower layer filtered through Whatman No. 1 paper into a clean, dry cuvette. The optical density of the solution at 435 mμ is read against a reagent blank prepared in the same manner. All cuvettes are emptied, rinsed well, filled with distilled water, and optical densities read against the reagent blank cuvette. The optical density of the sample is corrected for the optical density of the cuvette. The standard curve is used to find the amount of nitrate in the sample aliquot analyzed.

$$\frac{\mu g \text{ nitrate in 5 ml. sample} \times 200}{\text{m.}^3 \text{ of air sampled}} = \mu g \text{ nitrate/m.}^3 \text{ of air}$$

Standardization

A series of standards (starting with the working standard solution) is prepared according to the following table:

µg nitrate in standard	*Ml. working standard solution*	*Ml. distilled water*
Blank	0	5
20	1	4
40	2	3
60	3	2
80	4	1
100	5	0

The procedure for analysis of sample, starting with step 2, is followed. A standard curve is constructed by plotting µg of nitrate against optical density on rectangular coordinate graph paper.

PART 5—EXPLANATION OF STATISTICAL TERMS

CUMULATIVE FREQUENCY DISTRIBUTION

The cumulative frequency distribution is presented in terms of the 10th, 20th, . . . 90th percentiles. The percentiles define the concentration of a pollutant such that the corresponding percent of the total samples had concentrations less than or equal to (i.e., not greater than) the stated amount. As an example, consider the cumulative frequency distribution for all urban stations for 1957 (table 2.1). The entry in the 90 percent column is 238; that is to say, for 90 percent of the 2,360 samples collected, or 2,124, the concentration of suspended particulates did not exceed 238 µg/m.³. Conversely, for 10 percent, or 236 samples, the concentration of suspended particulates was 238 µg/m.³ or more.

Other percentiles can be interpreted in a similar fashion. The 50 percentile is also known as the median of a distribution.

ARITHMETIC MEAN

In the presentation of numerical data one seeks to find a value that is most representative of the entire set of data. Such a value is referred to as a measure of central tendency. The equation for computing the most commonly used measure of central tendency, the arithmetic mean (average), is

$$\overline{X}=\frac{1}{N}\sum_{i=1}^{N} X_i$$

where

$\overline{X}$= the arithmetic mean.

N= the number of measurements.

$\sum_{i=1}^{N} X_i = X_1 + X_2 + \ldots + X_N$, i.e., the sum of the N measurements.

GEOMETRIC MEAN

If the distribution of a set of numbers is approximately normal (the familiar bell-shaped curve), the arithmetic mean is an appropriate measure of central tendency. Studies of the distribution of measurements of particulate air pollutants tend to indicate, however, that a more suitable frequency function is that of the log-normal distribution (3, 12). For this class of distributions, the logarithms of the actual measurements are approximately normally distributed. The measure of central tendency most appropriate for the log-normal distribution is the geometric mean given by

$$\overline{X}_g=[X_1 \cdot X_2 \cdot X_3 \ldots X_N]^{\frac{1}{N}}$$

or more simply by

$$\overline{X}_g=\text{antilog}\left[N\sum_{i=1}^{N} \log X_i\right]$$

where

$\overline{X}_g$= the geometric mean.

N= the number of observations.

$\sum_{i=1}^{N} \log X_i$ = the sum of the common logarithms of the measurement.

STANDARD GEOMETRIC DEVIATION

The probability density function of the log-normal distribution is:

$$y=\frac{N}{\log \sigma_g \sqrt{2\pi}}\, e - \frac{(\log X - \log \overline{X}_g)^2}{2 \log^2 \sigma_g}$$

where

π= a constant, approximately 3.1416.

e= a constant, approximately 2.7183.

σ_g= a parameter, called the standard geometric deviation.

$\overline{X}_g$= a parameter, called the geometric mean.

X= the abscissa, or a measurement on the X axis of some variable like the concentration of suspended particulate.

y= the ordinate, corresponding to the frequency of an assigned value of X.

N= the total number of observations of the variable.

From the equation it is apparent that the log-normal distribution is completely described by two parameters, the geometric mean ($\overline{X}_g$), which has already been discussed, and the standard geometric deviation (σ_g). Whereas the geometric mean is a measure of central tendency, the standard geometric deviation, similarly to the standard deviation, is a measure of the dispersion or spread in a distribution of values. The equation for the standard geometric deviation is:

$$\sigma_g=\text{antilog}\left[\frac{N\sum_{i=1}^{N} \log^2 X_i - \left(\sum_{i=1}^{N} \log X_i\right)^2}{N(N-1)}\right]^{\frac{1}{2}}$$

where

σ_g = standard geometric deviation.

N = the number of measurements.

$\sum_{i=1}^{N} \log X_i$ = the sum of the logarithms of the measurements.

$\sum_{i=1}^{N} \log^2 X_i$ = the sum of squares of logarithms of measurements.

A brief review of the properties of the standard deviation of a normal distribution will help to better understand the standard geometric deviation. The normal curve is symmetrical, and the mean and median (i.e., the 50th percentile) coincide (fig. 5.1). If the area under the normal curve is assumed to be unity, then it can be shown that 0.6827 of this area is contained in the interval $\bar{X} \pm \sigma$. It can be further shown that 0.8413 of the area lies to the left of $\bar{X} + \sigma$. Likewise for the log-normal distribution 0.6827 of the area under the curve lies in the interval $\bar{X}_g/\sigma_g$ to $\bar{X}_g\sigma_g$, and 0.8413 of the area lies to the left of $\bar{X}_g\sigma_g$.

A graphic presentation of the log-normal distribution can be easily constructed, since the cumulative frequency distribution is linear when plotted on logarithmic probability graph paper. One can plot several points (e.g., the percentiles) of the cumulative frequency distribution or, more easily, plot the geometric mean value ($\bar{X}_g$) on the 50 percent ordinate and the value $\bar{X}_g\sigma_g$ on the 84.13 percent ordinate and fit a straight line to the set of points. As an example, the cumulative frequency distribution of suspended particulates for all urban stations for 1960 is plotted, by the two techniques just described (fig. 5.2). First, the percentiles of the cumulative frequency distribution are plotted (table 2.1). Next, the geometric mean of 99 $\mu g/m^3$ is plotted on the 50 percent ordinate and the value 176 $\mu g/m^3$ ($\bar{X}_g\sigma_g = 99 \times 1.78$) is plotted on the 84.13 percent ordinate. The same straight line fits both sets of points.

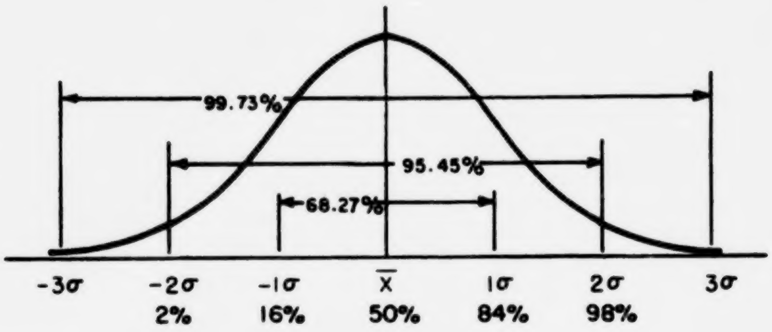

FIGURE 5.1—NORMAL DISTRIBUTION CURVE.

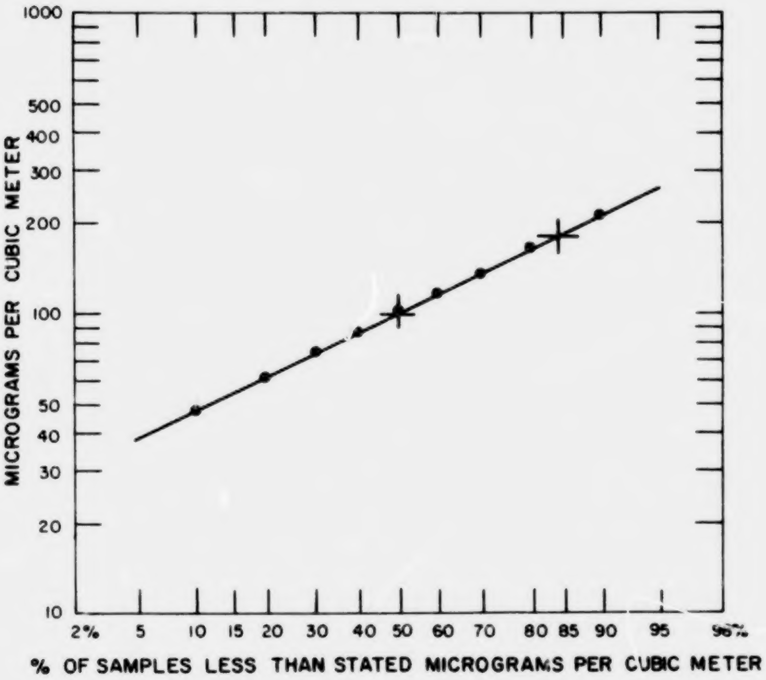

FIGURE 5.2—CUMULATIVE FREQUENCY DISTRIBUTION SUSPENDED PARTICULATE MATTER, ALL URBAN STATIONS, 1960.

CORRELATION COEFFICIENT

The correlation coefficient is a measure of the linear dependence between two variables. By mathematical definition, the correlation coefficient can vary in magnitude from −1 to +1.

Two variables that tend toward linear dependency will have a correlation near −1 or +1, while independent variables will have a correlation near zero. The equation of the correlation coefficient is given by:

$$r = \frac{N\sum_{i=1}^{N} X_i Y_i - \sum_{i=1}^{N} X_i \sum_{i=1}^{N} Y_i}{\left\{\left[N\sum_{i=1}^{N} X_i^2 - \left(\sum_{i=1}^{N} X_i\right)^2\right]\left[N\sum_{i=1}^{N} Y_i^2 - \left(\sum_{i=1}^{N} Y_i\right)^2\right]\right\}^{1/2}}$$

where

r = correlation coefficient.

N = number of pairs of measurements.

$\sum_{i=1}^{N} X_i$ = sum of measurements of first variable.

$\sum_{i=1}^{N} X_i^2$ = sum of squares of measurements of first variable.

$\sum_{i=1}^{N} Y_i$ = sum of measurements of second variable.

$\sum_{i=1}^{N} Y_i^2$ = sum of squares of measurements of second variable.

$\sum_{i=1}^{N} X_i Y_i$ = sum of products of the two measurements.

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